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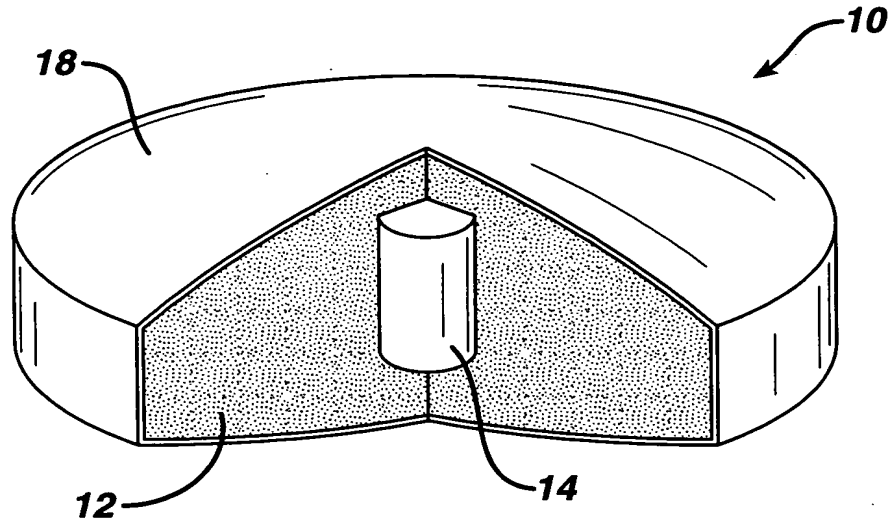
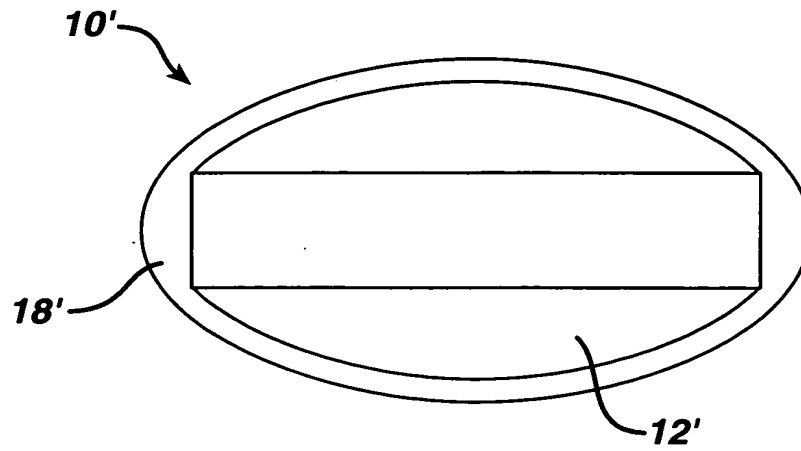
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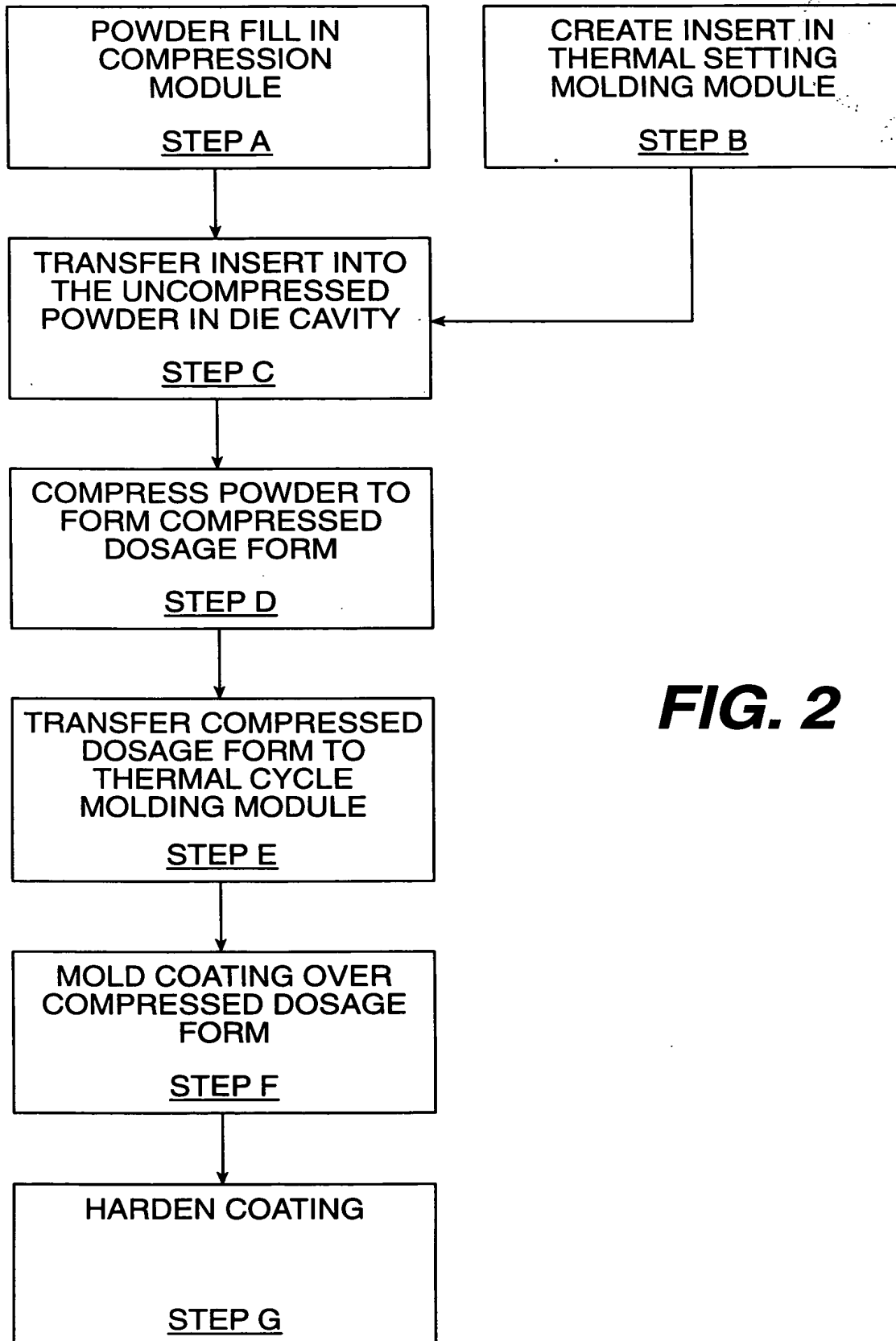
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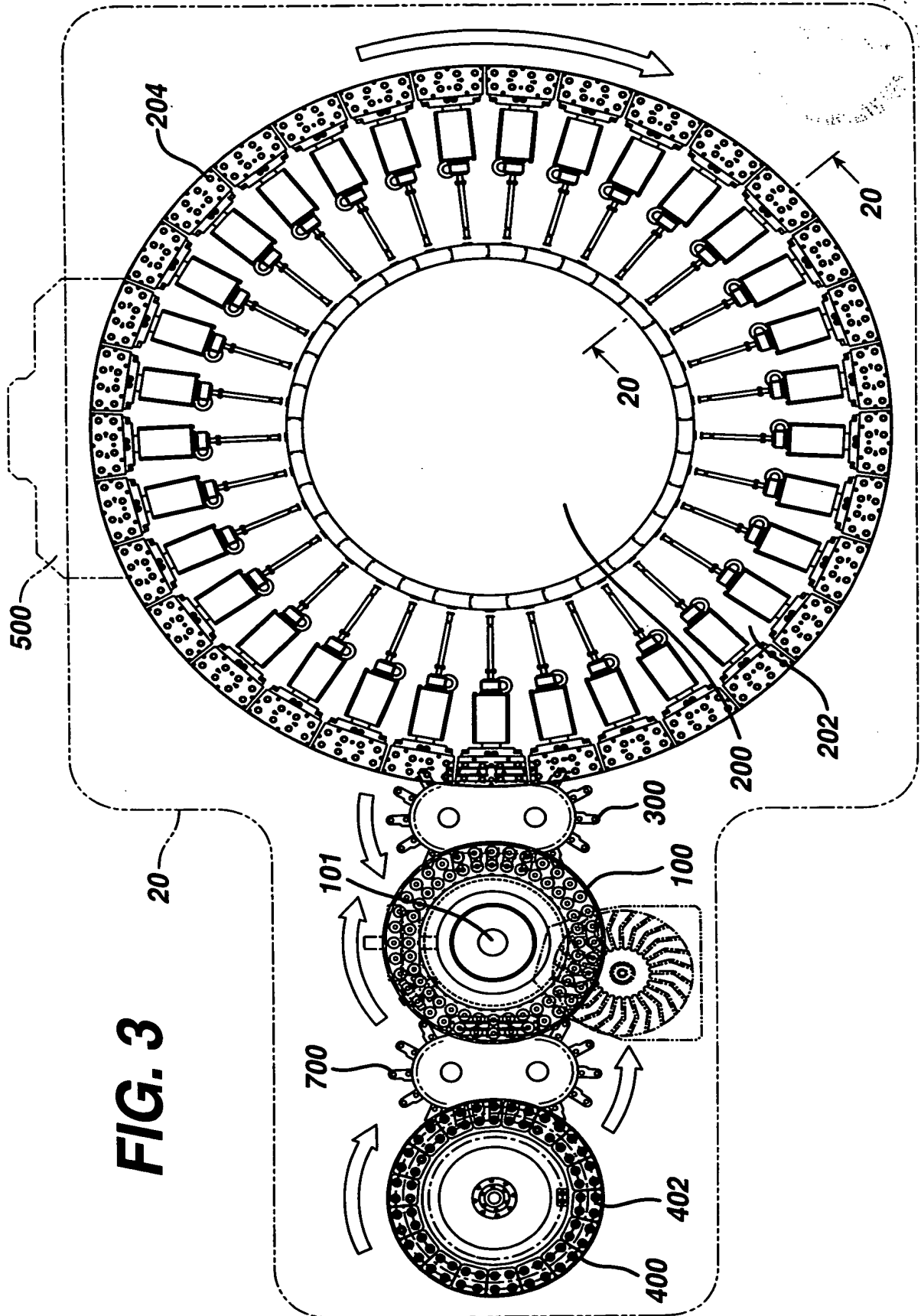
**FIG. 1A****FIG. 1B**

2/80

**FIG. 2**

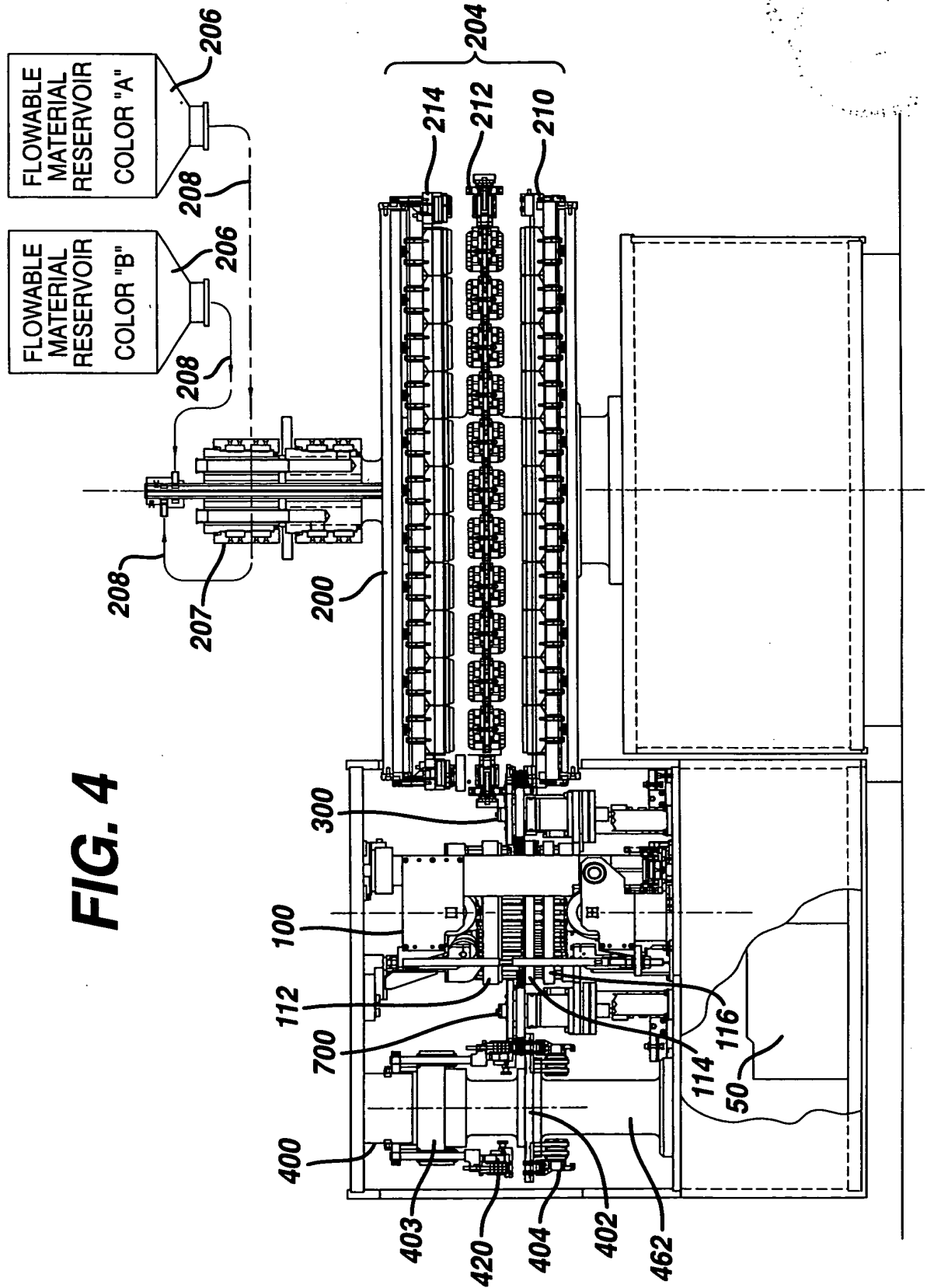
TITLE: Systems, Methods and Apparatuses for...  
 INVENTOR(S): Sowden, et al.  
 APP#: 09/966939  
 ATTY: S. E. Hayner TEL. #: 732-524-2242  
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3/80



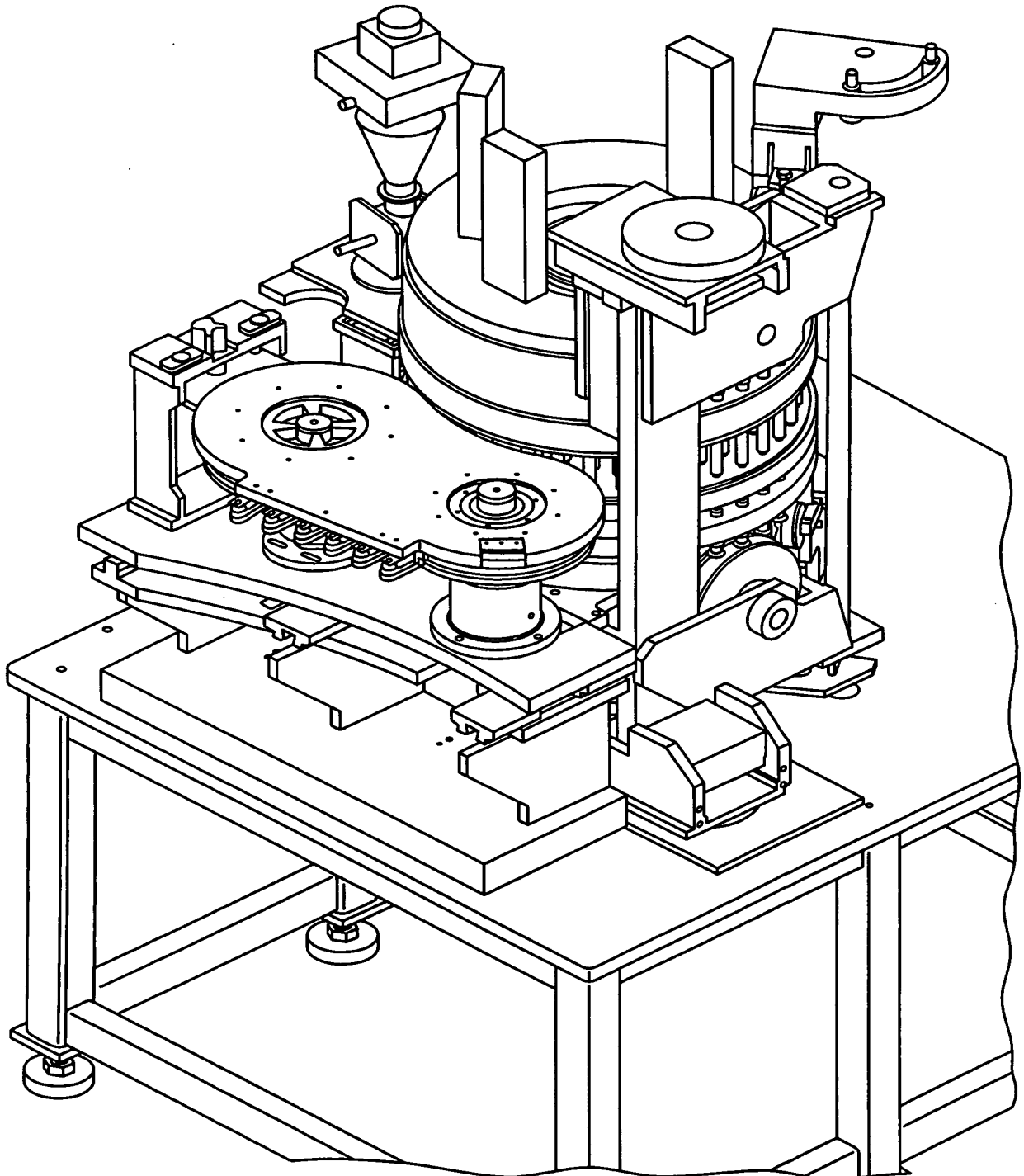
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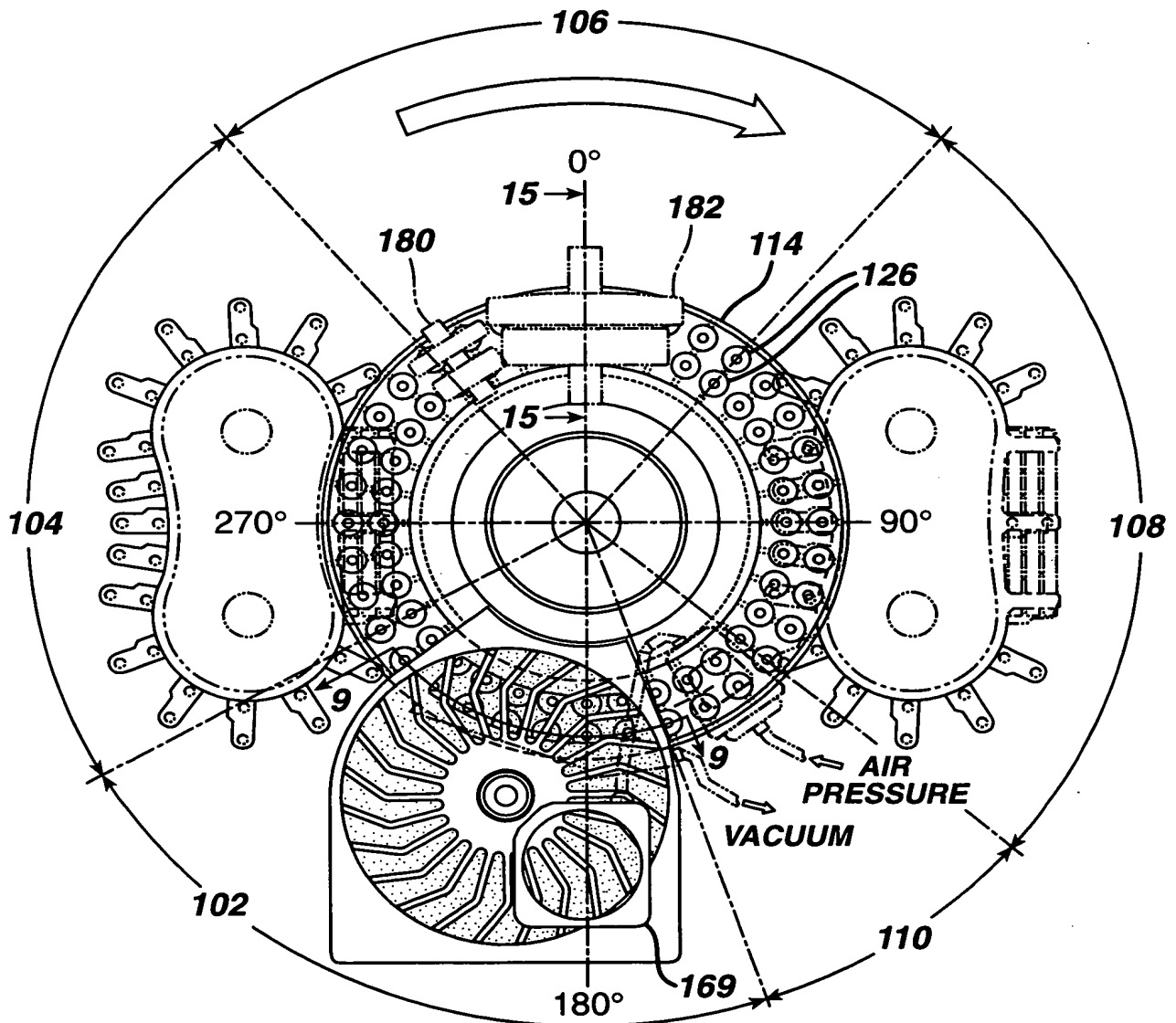
4/80



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5/80

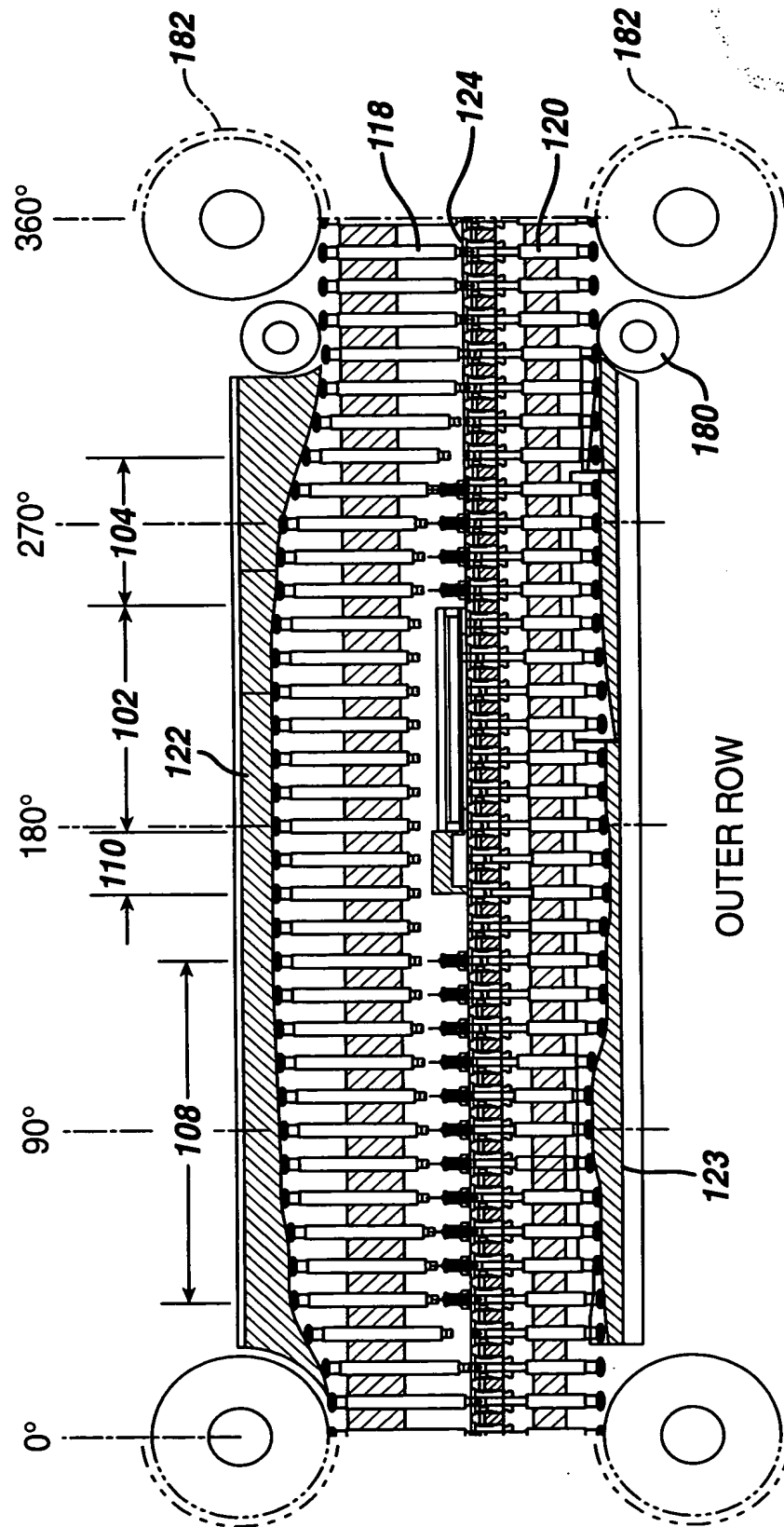
**FIG. 5**

**FIG. 6**

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7/80

FIG. 7

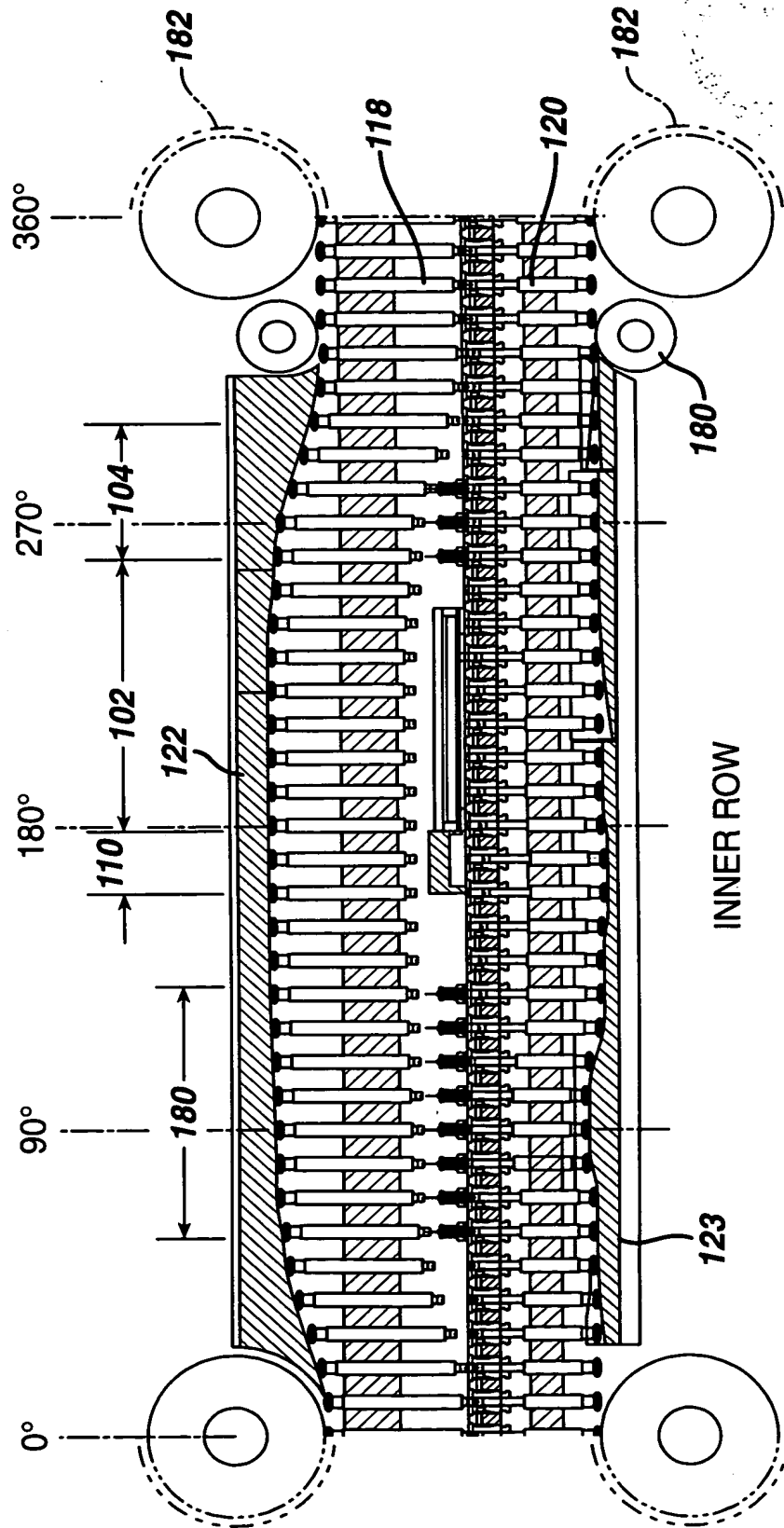




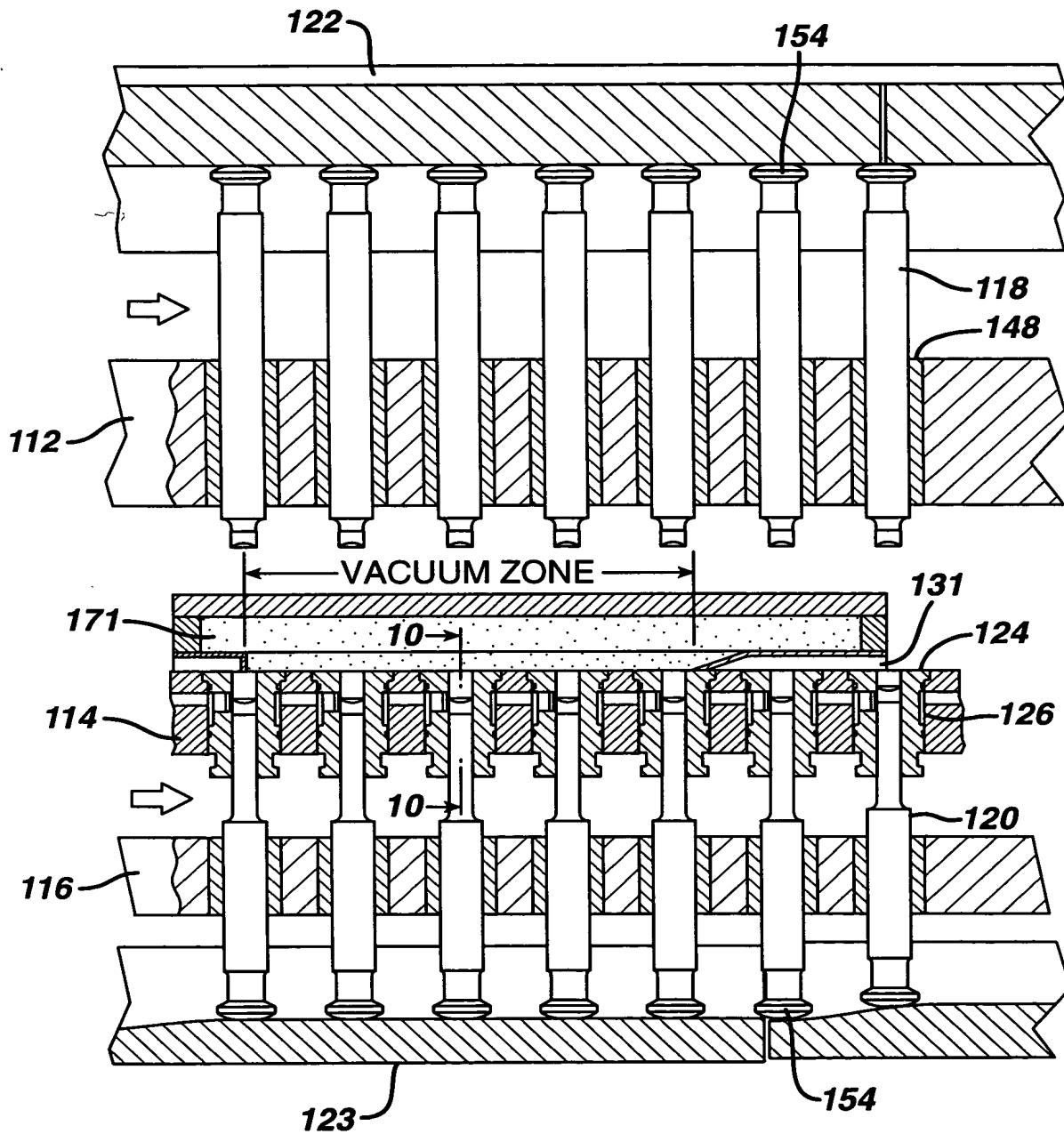
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8/80

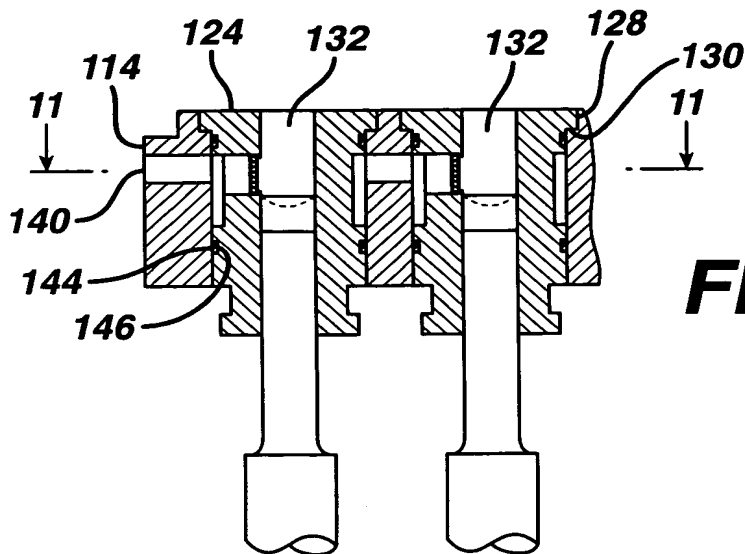
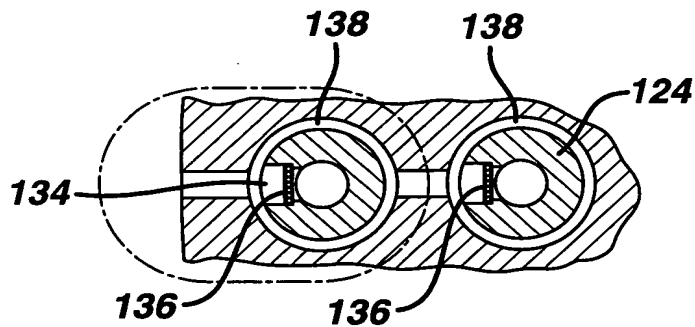
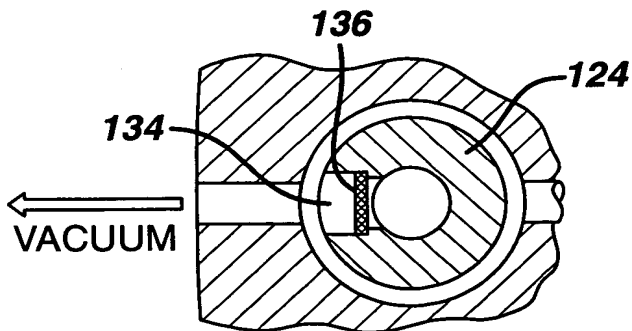
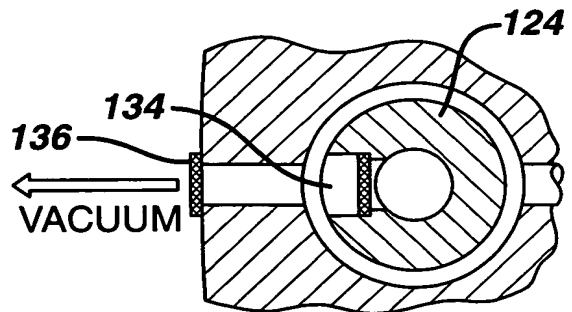
**FIG. 8**



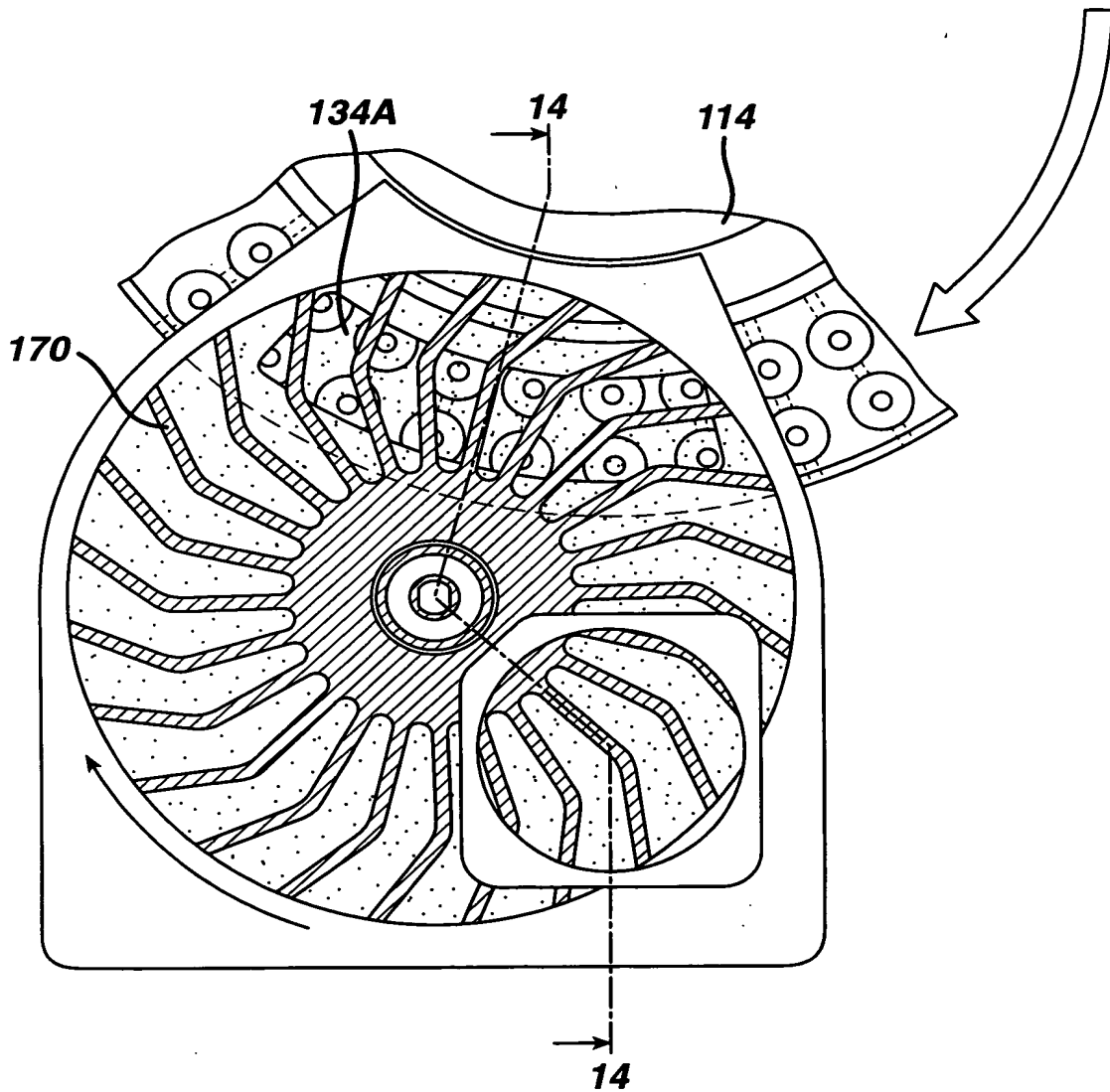
9/80

**FIG. 9**

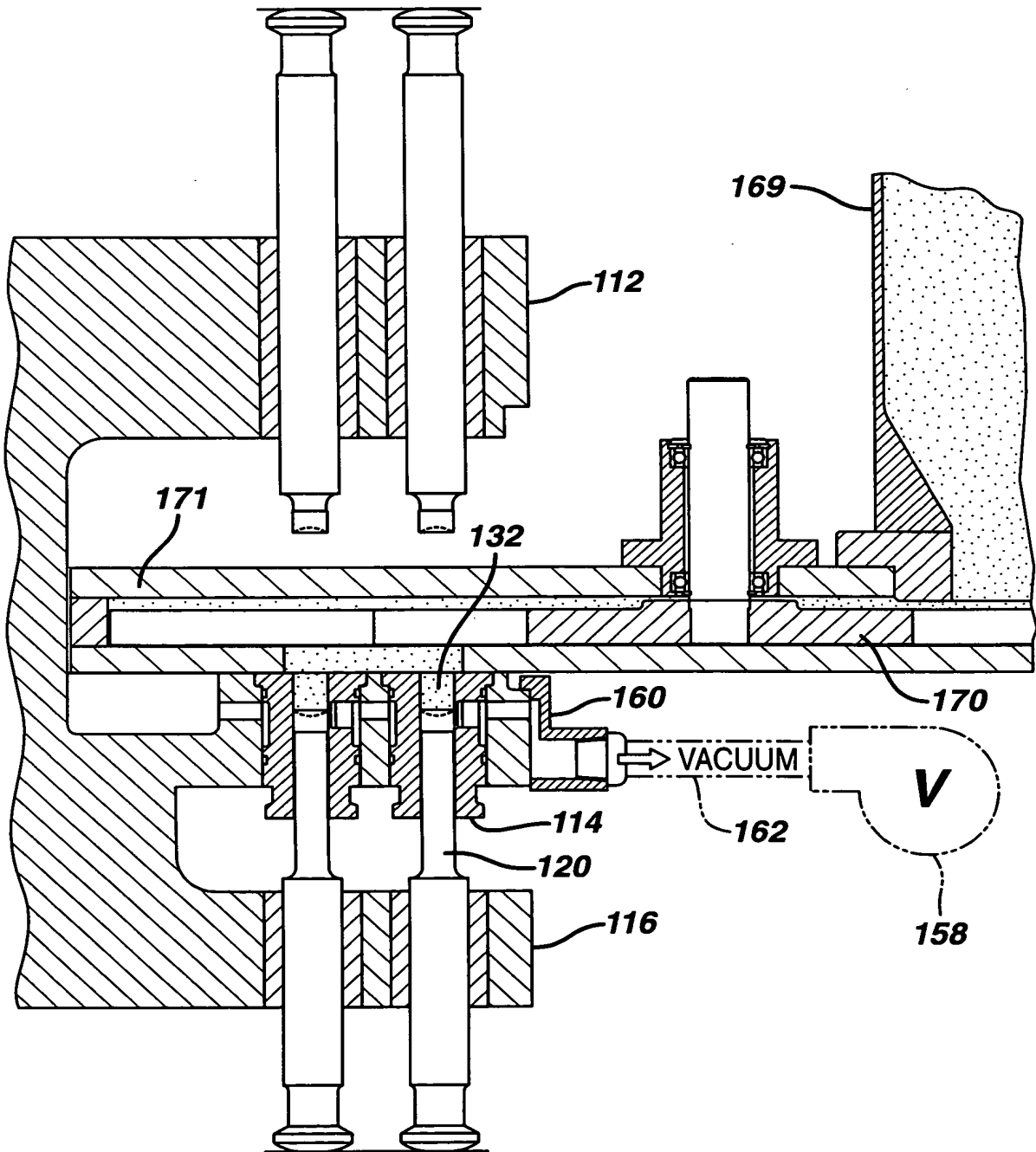
10/80

**FIG. 10****FIG. 11****FIG. 12****FIG. 12A**

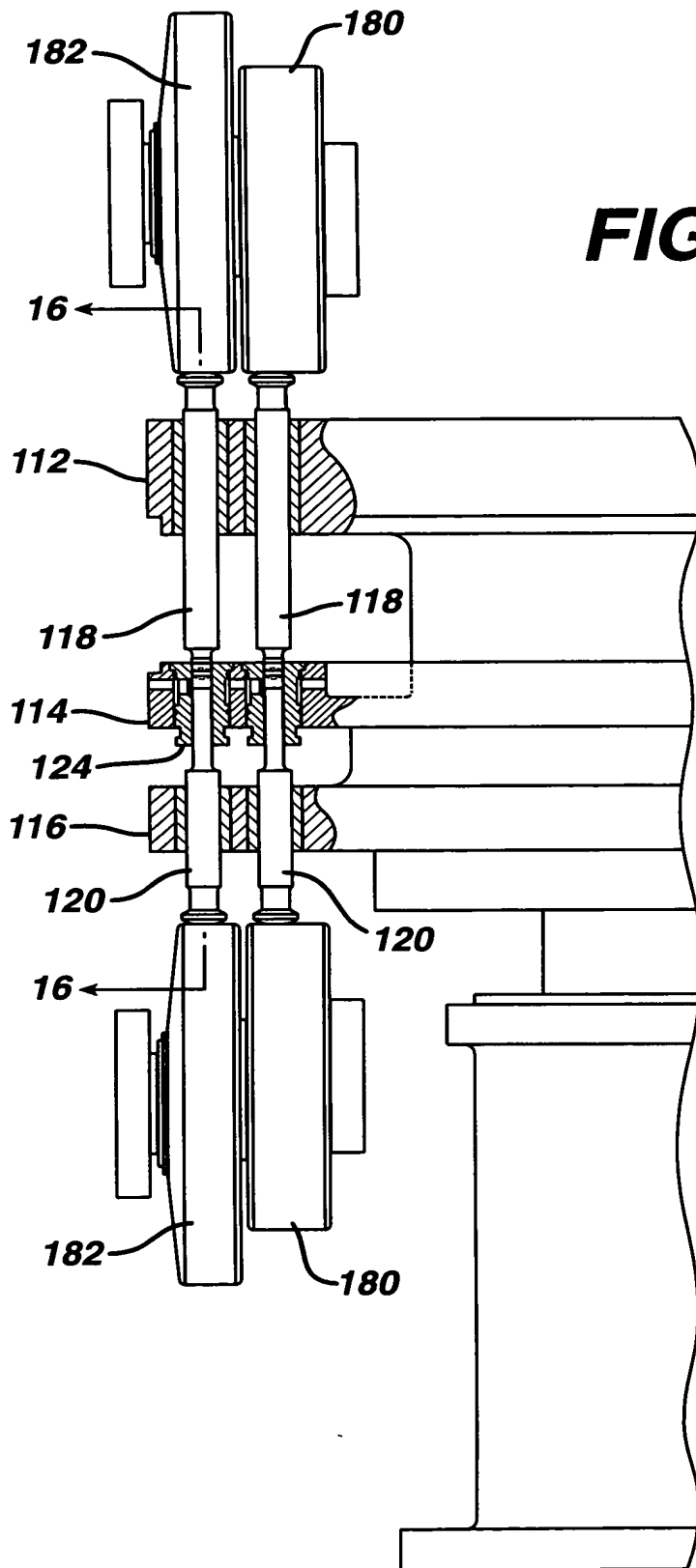
11/80

**FIG. 13**

12/80

**FIG. 14**

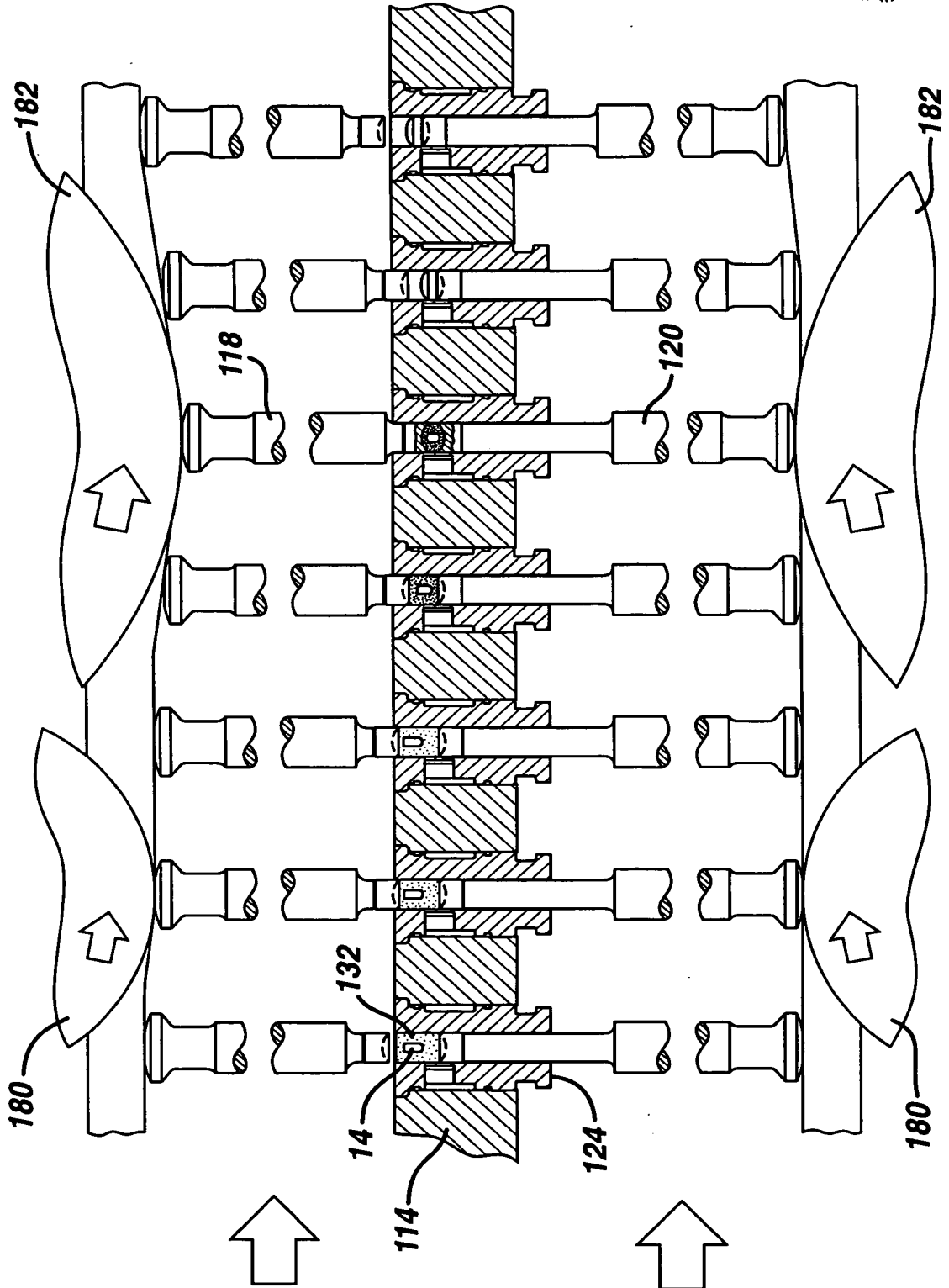
13/80



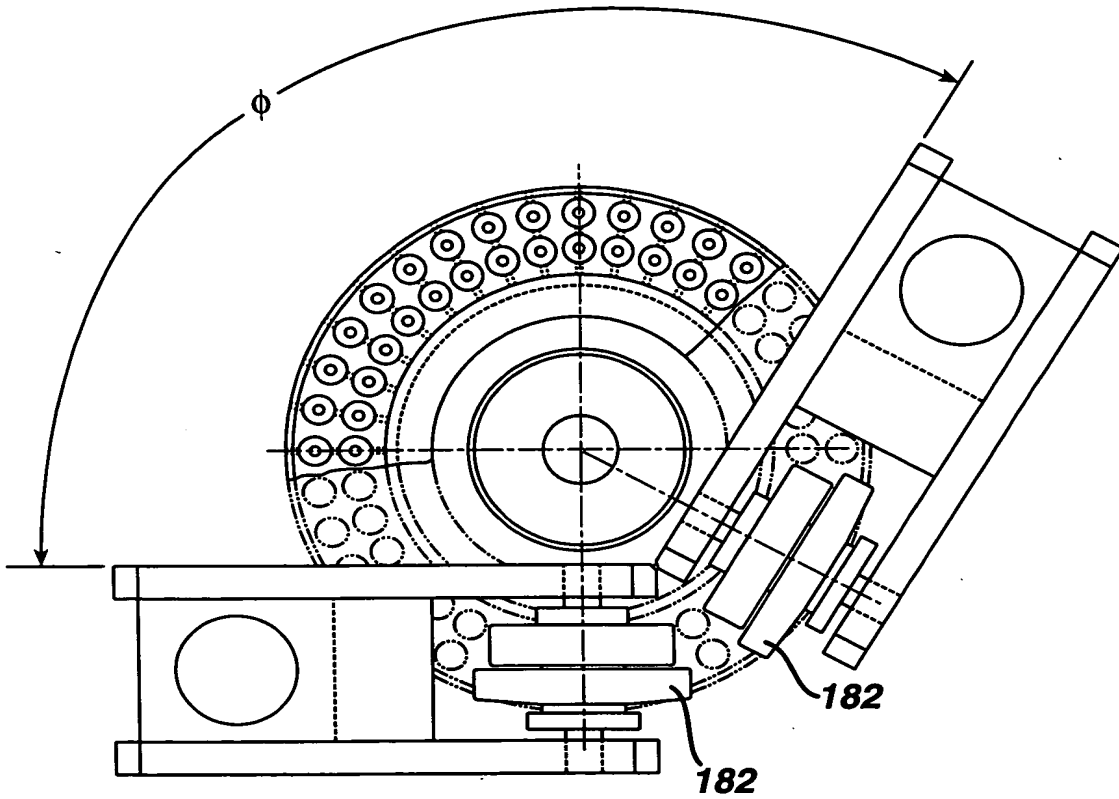
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14/80

FIG. 16



15/80

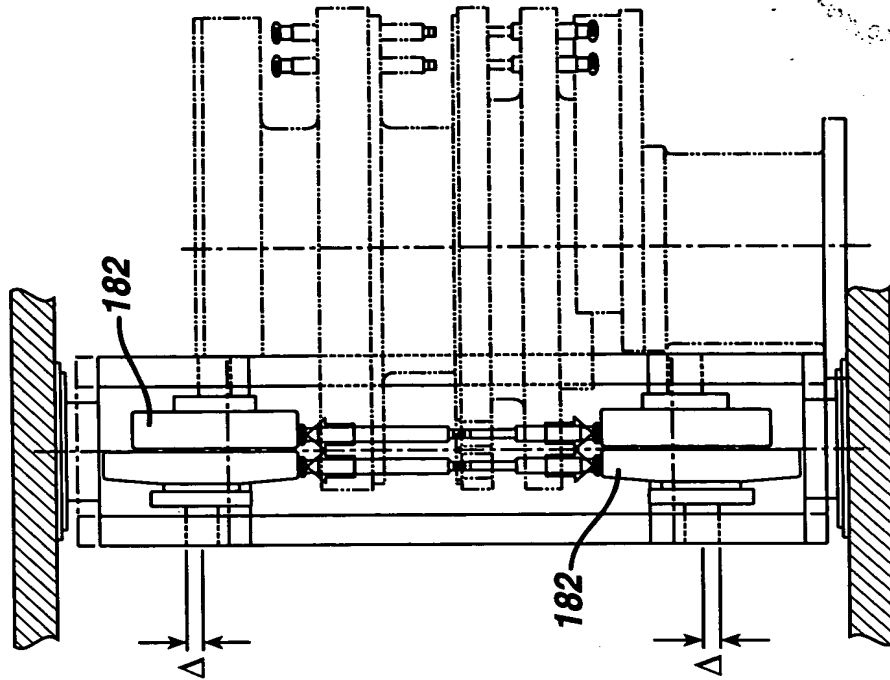
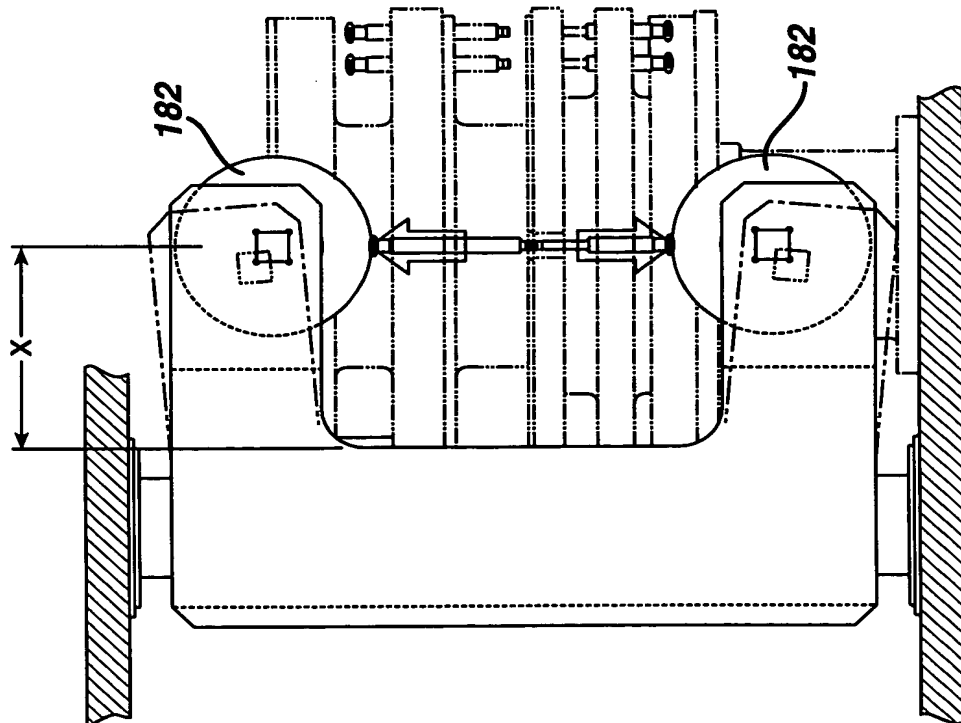
**FIG. 17A**



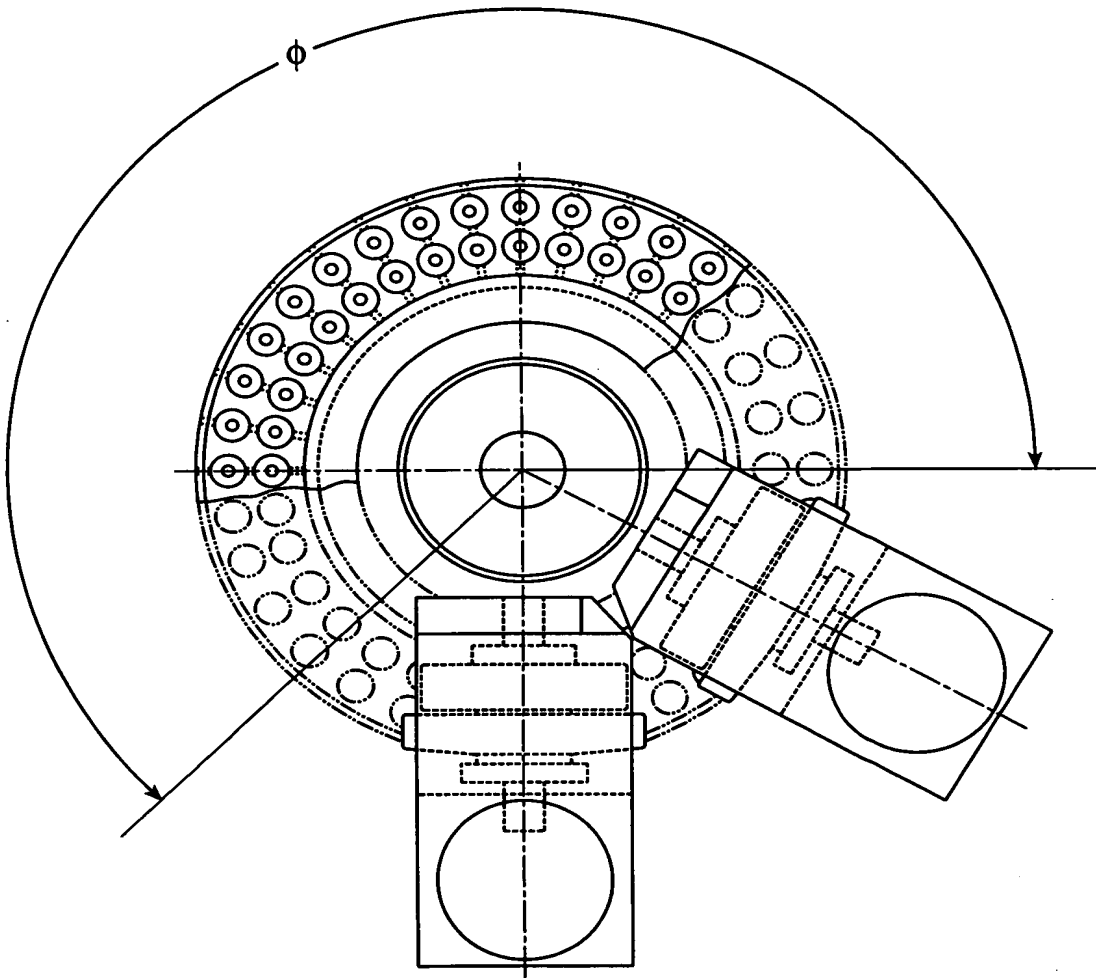
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16/80

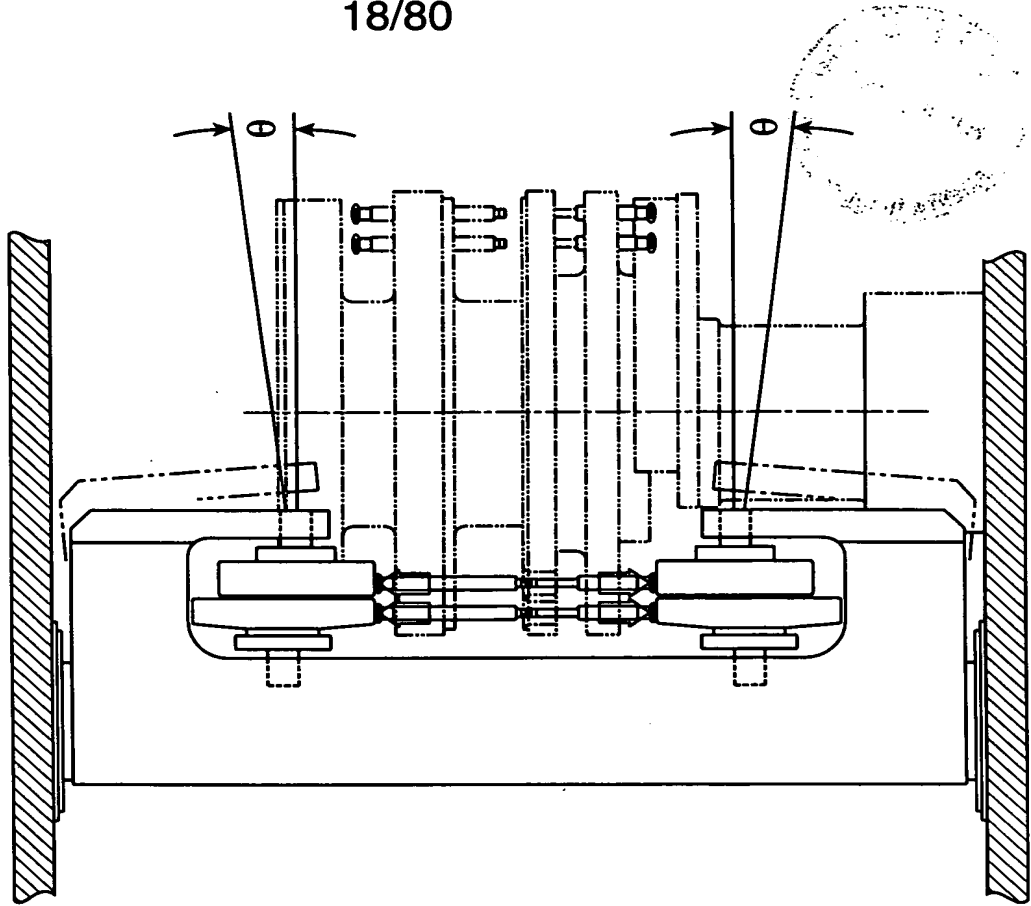
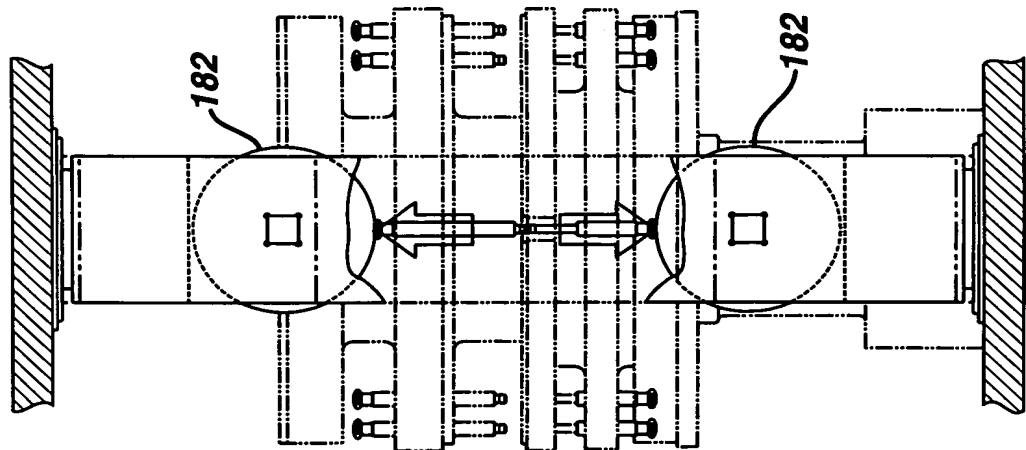
**FIG. 17C****FIG. 17B**

17/80

**FIG. 18A**

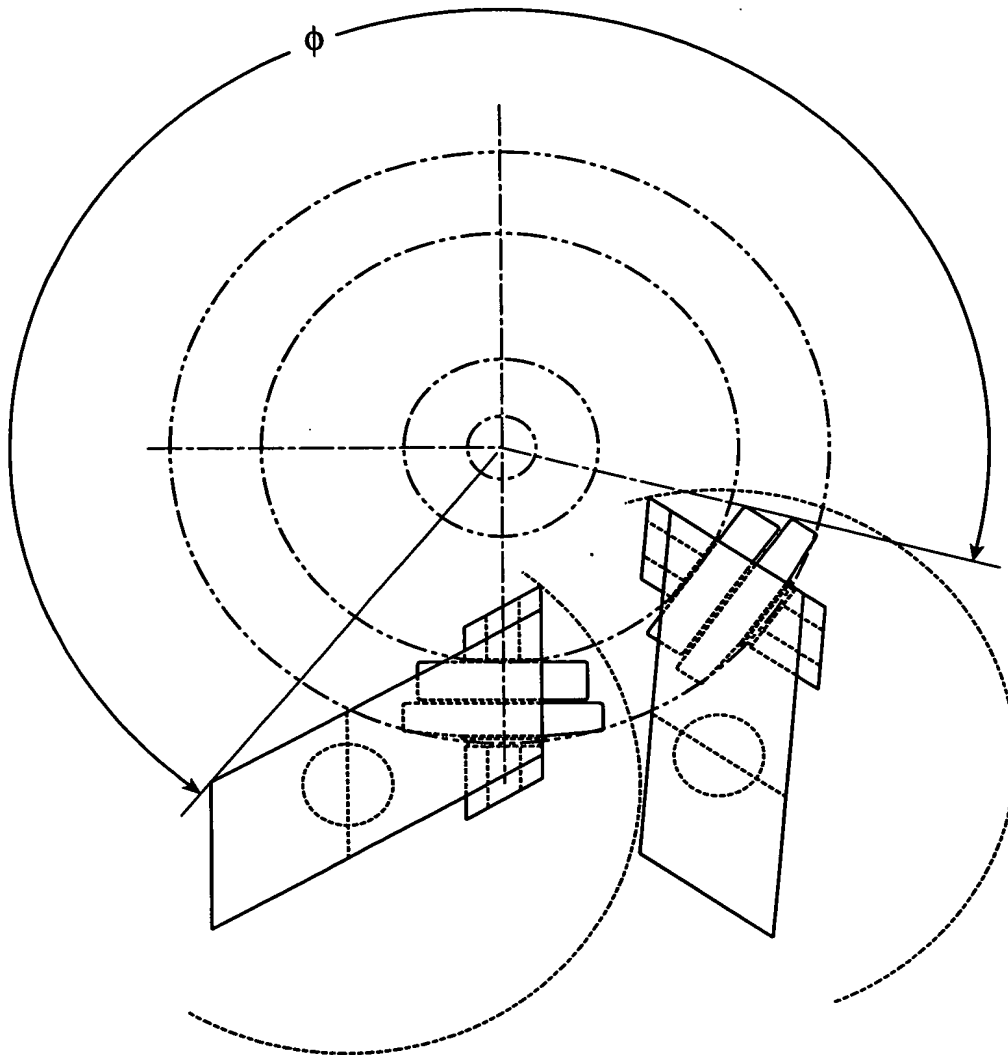
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18/80

**FIG. 18C****FIG. 18B**

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19/80

**FIG. 19A**

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20/80

FIG. 19C

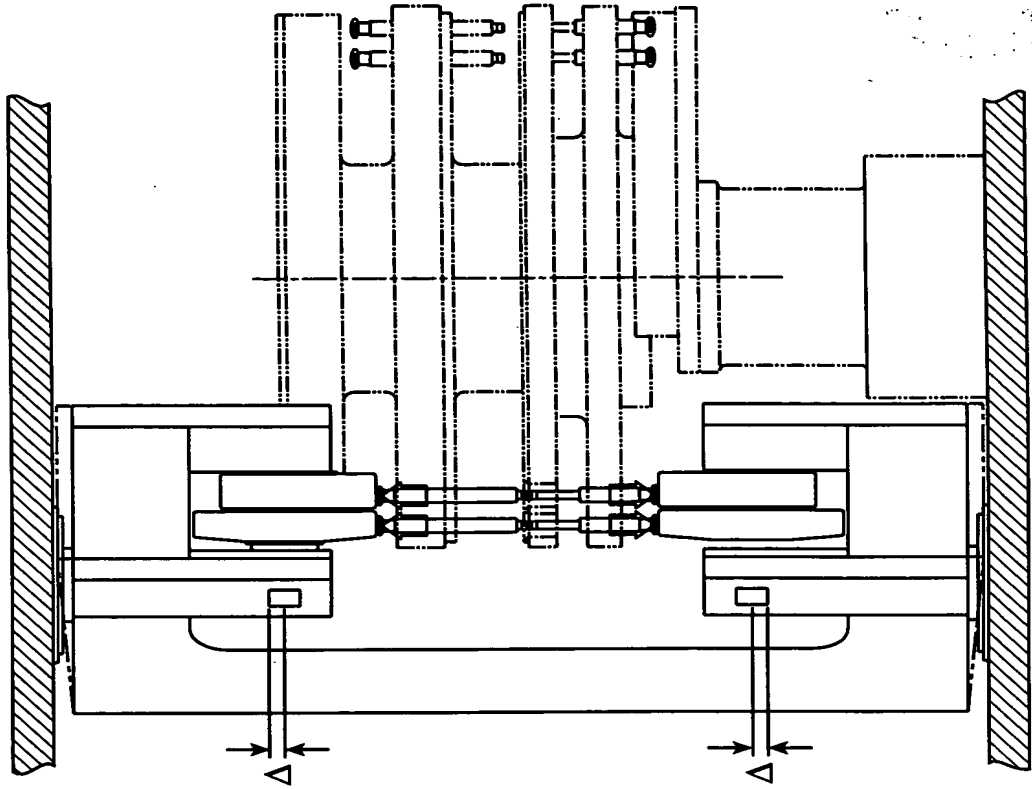
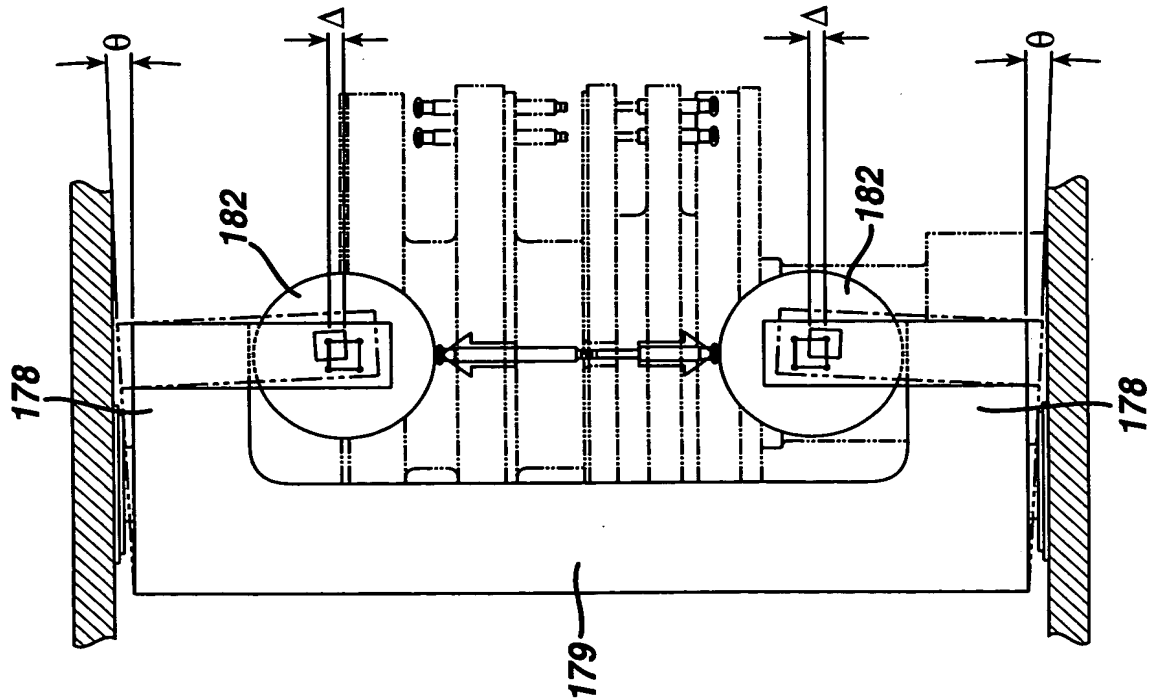
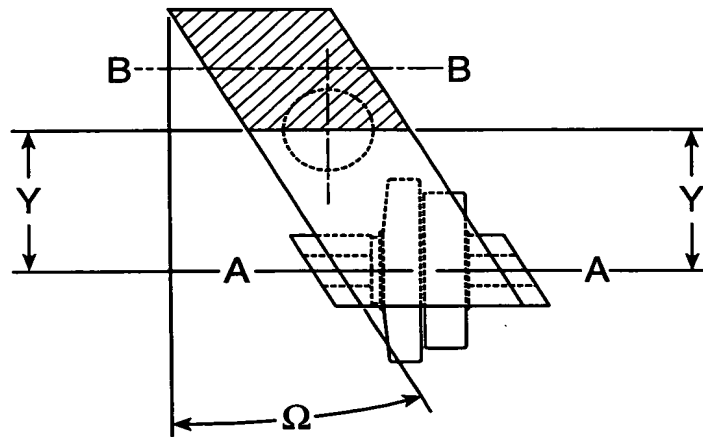


FIG. 19B

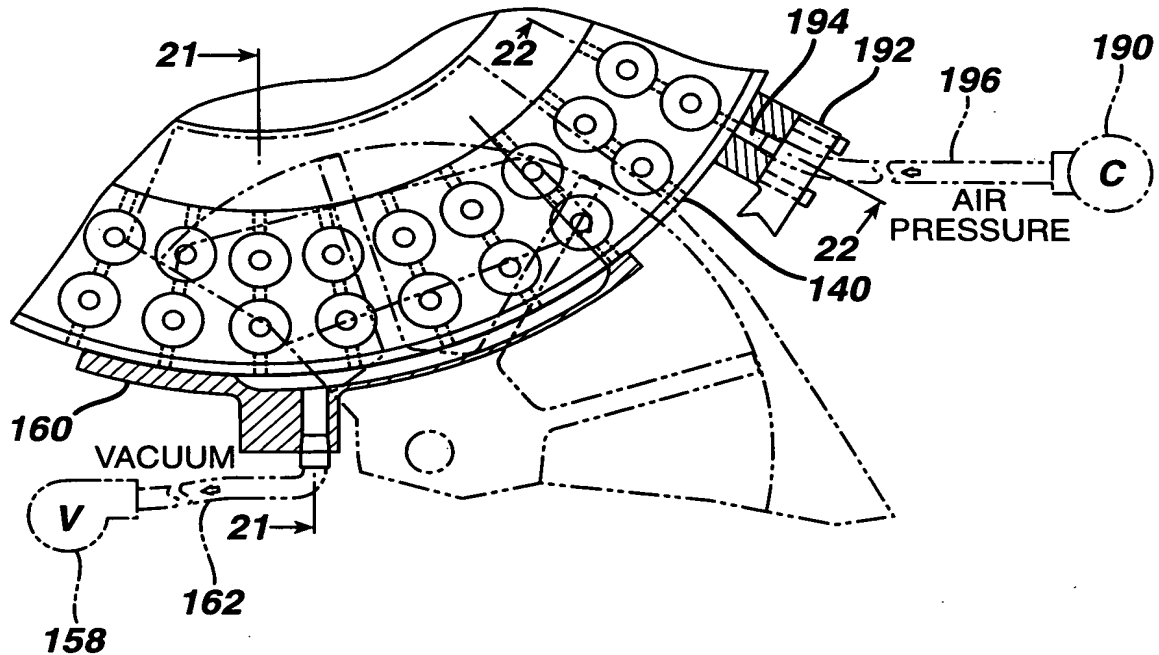


**FIG. 19D**

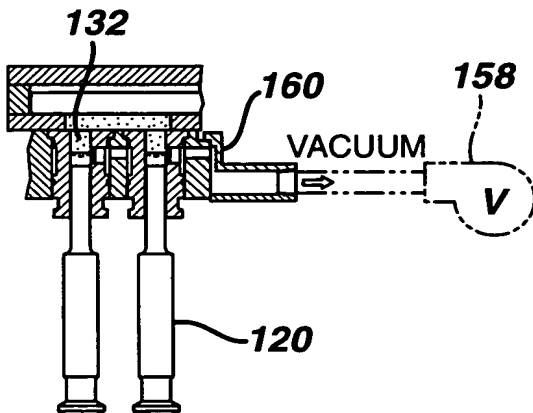
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22/80

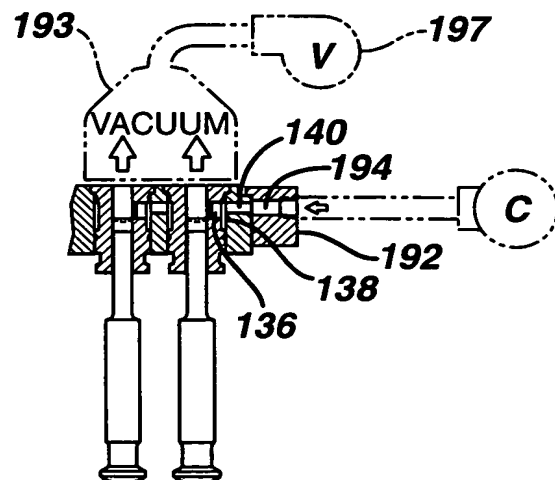
**FIG. 20**



**FIG. 21**



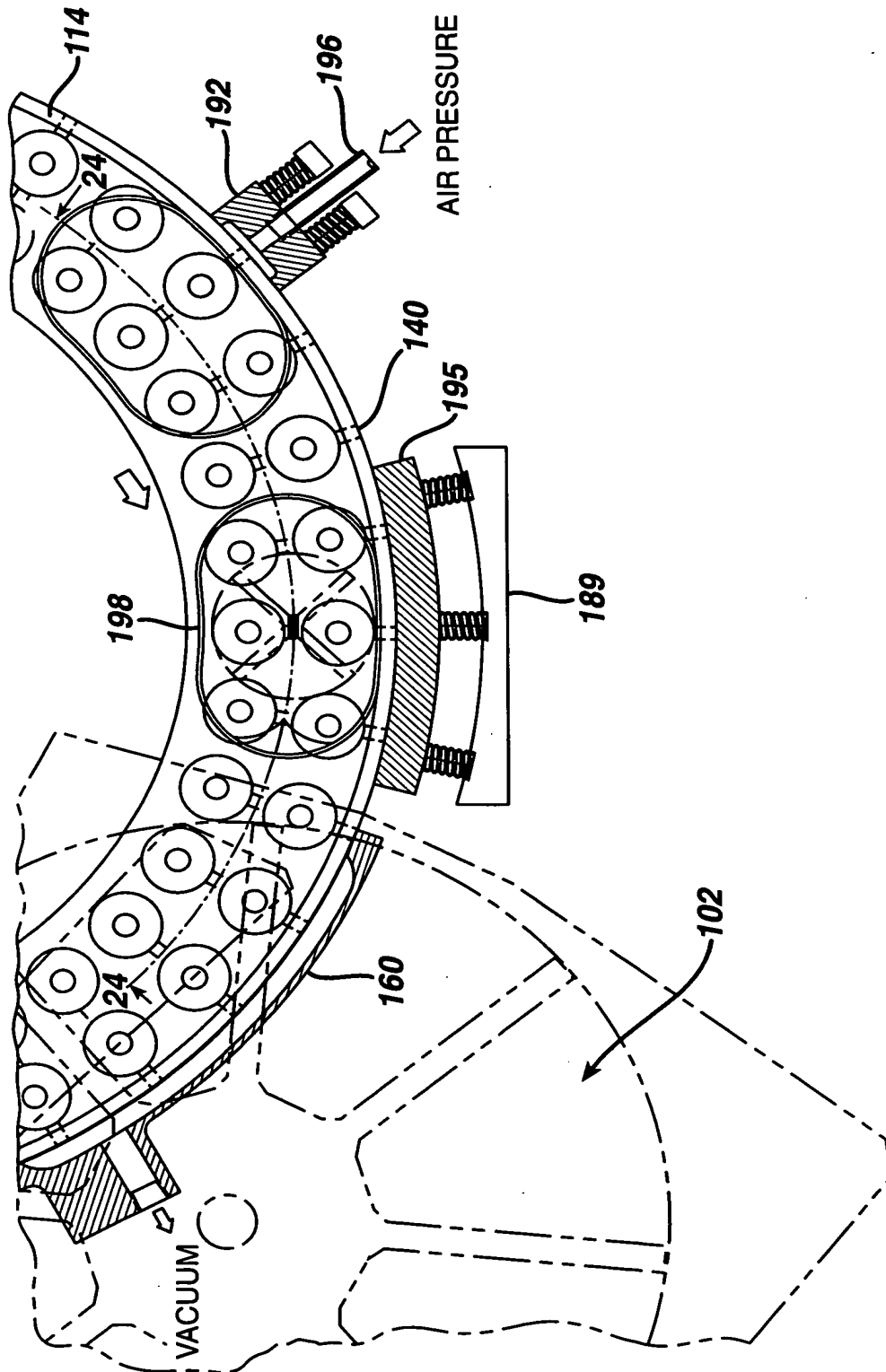
**FIG. 22**



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23/80

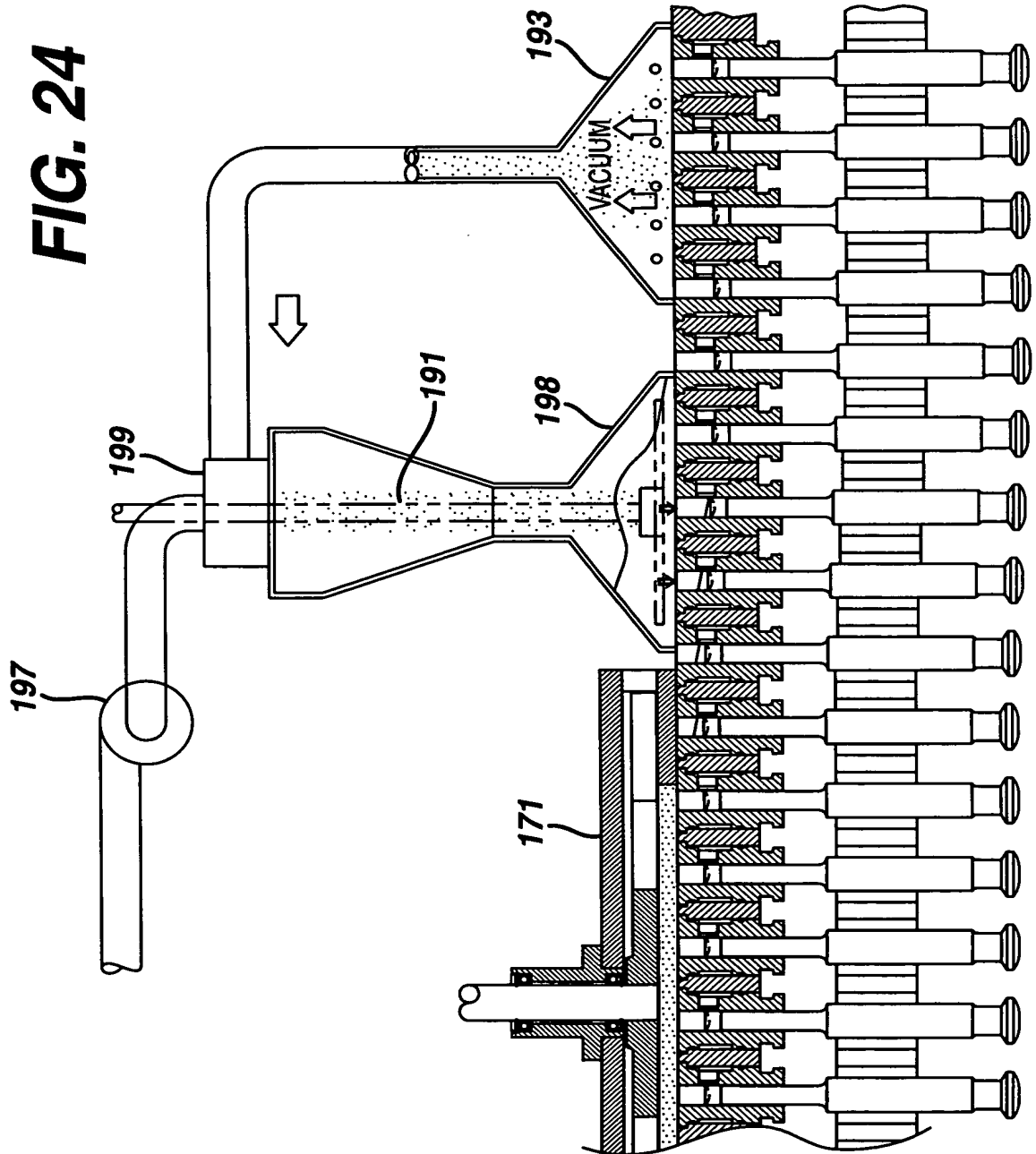
**FIG. 23**



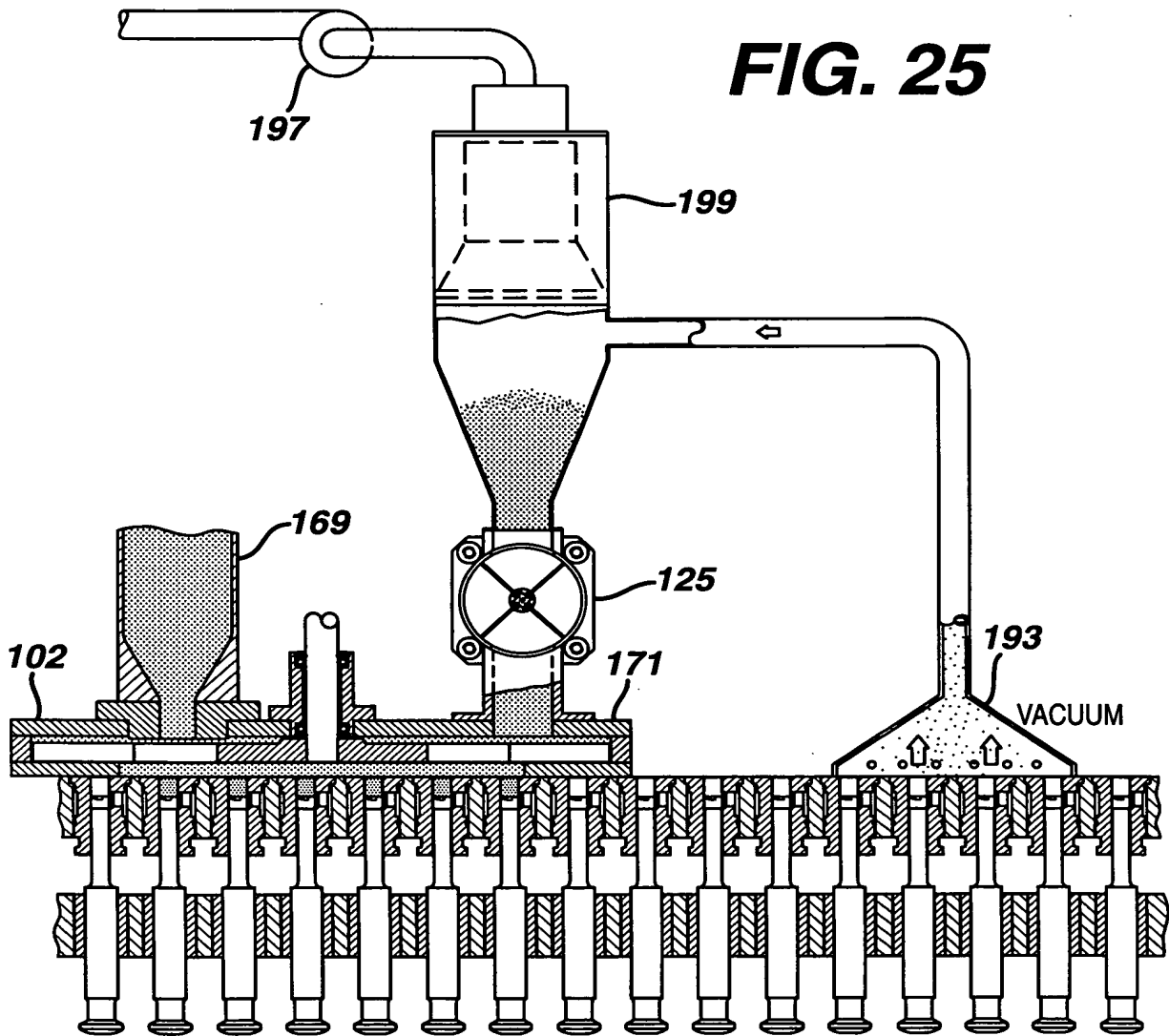


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24/80

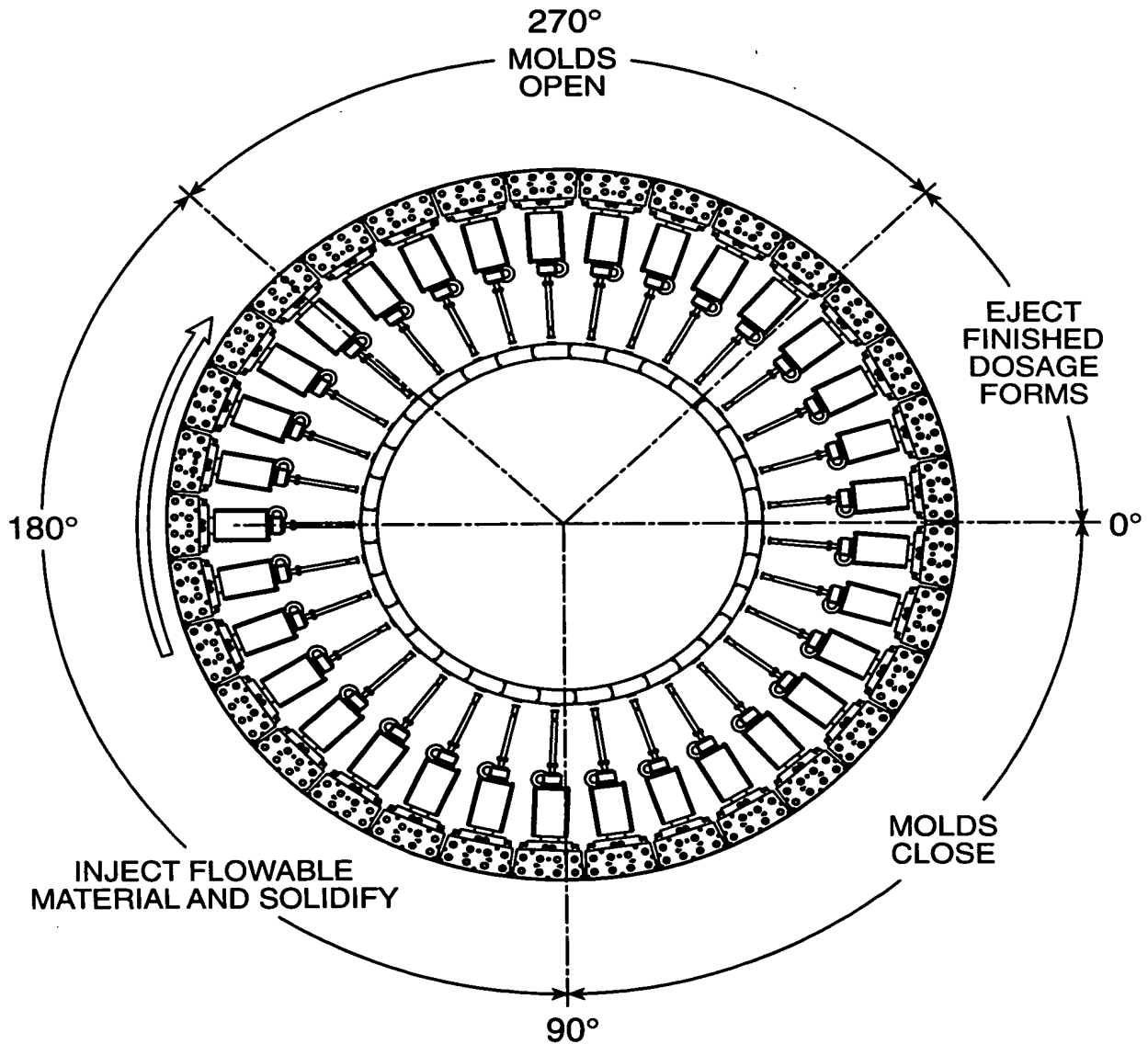


25/80



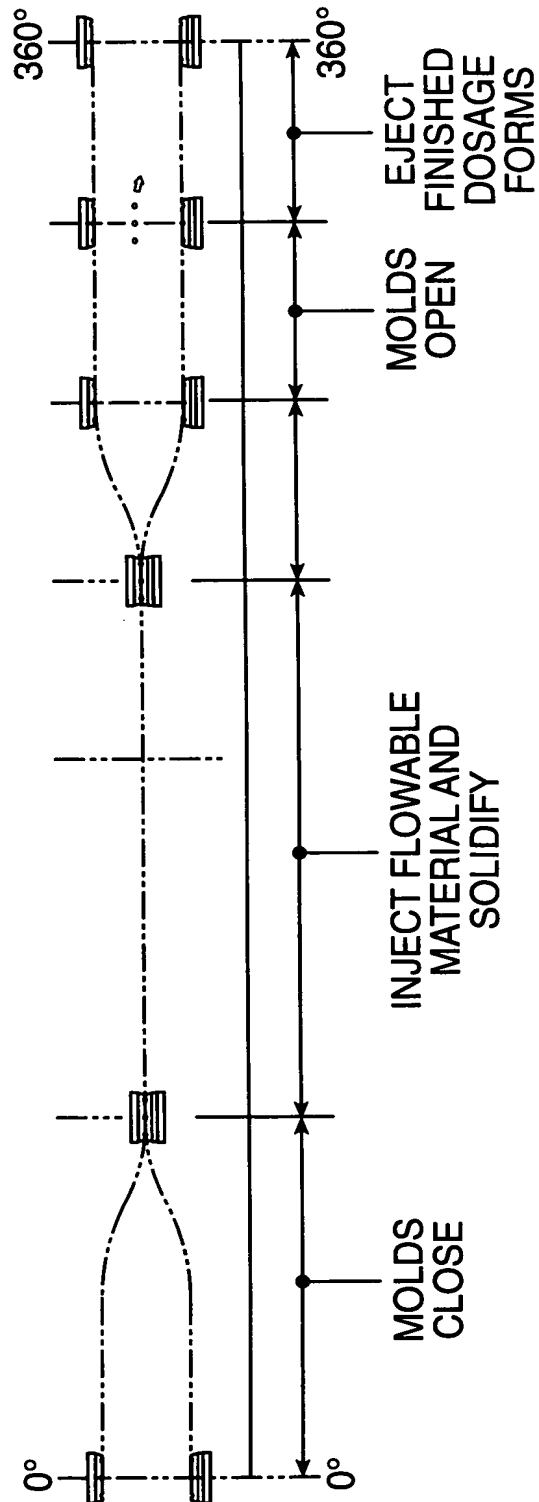
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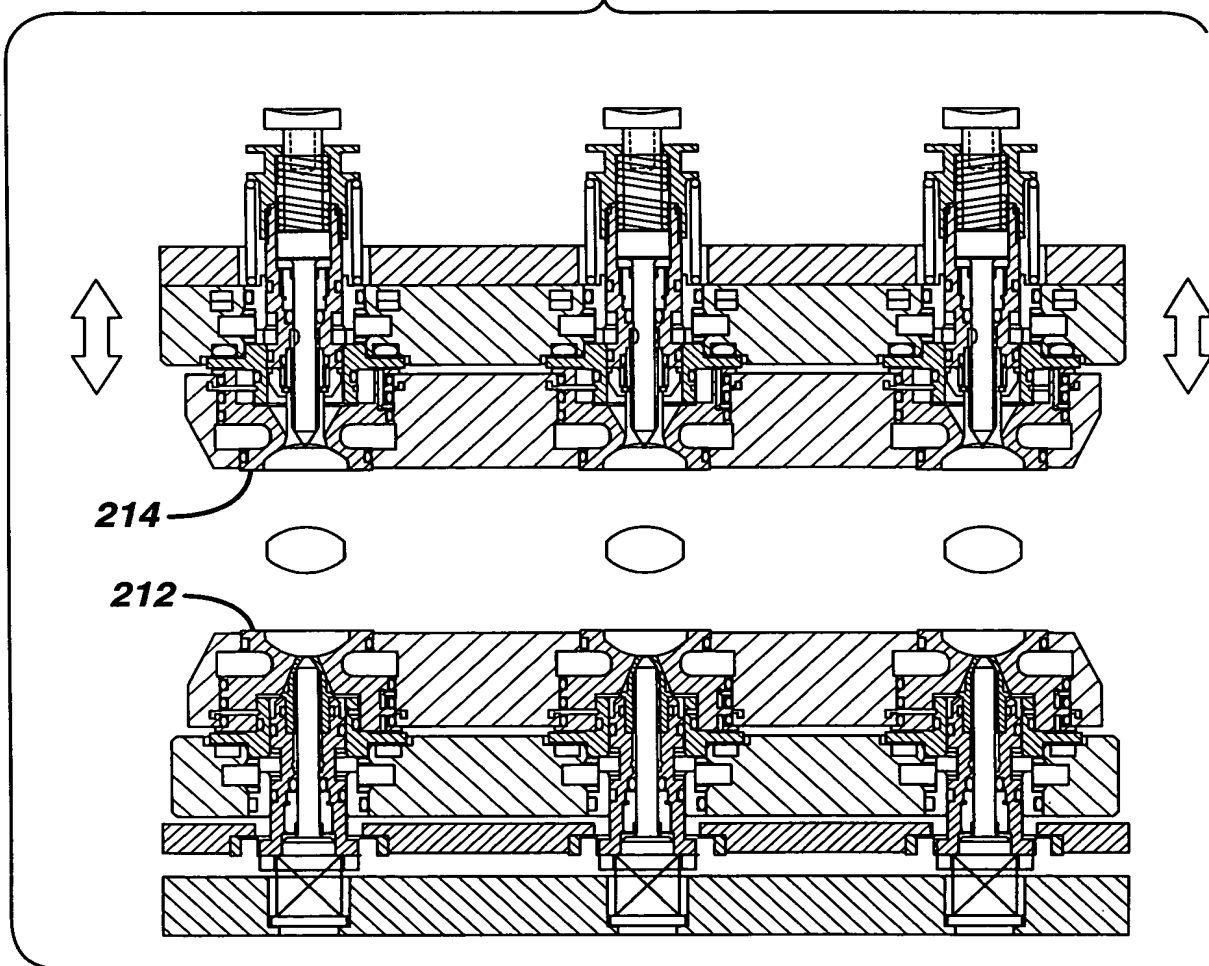
26/80

**FIG. 26A**

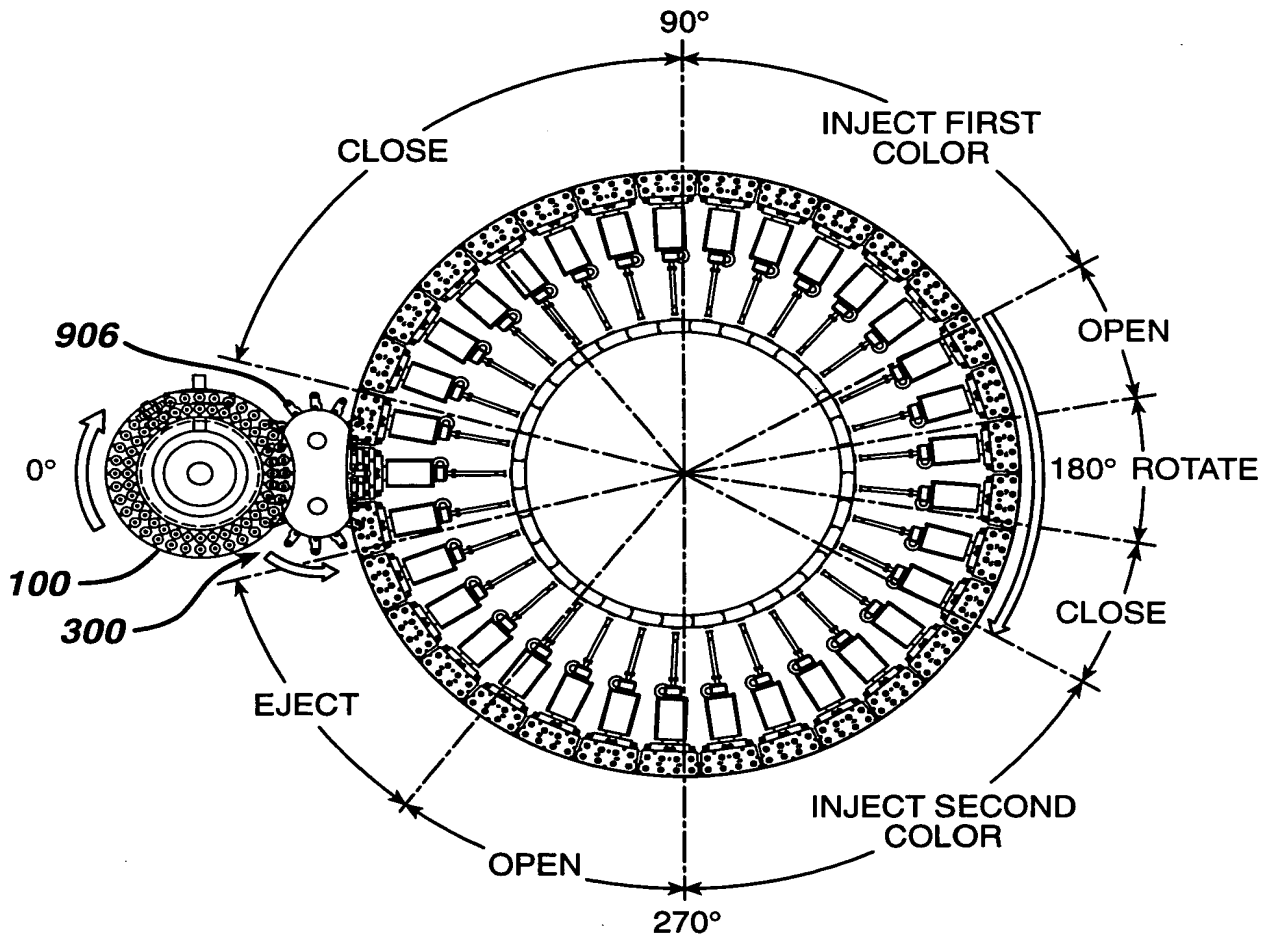
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27/80

**FIG. 26B**

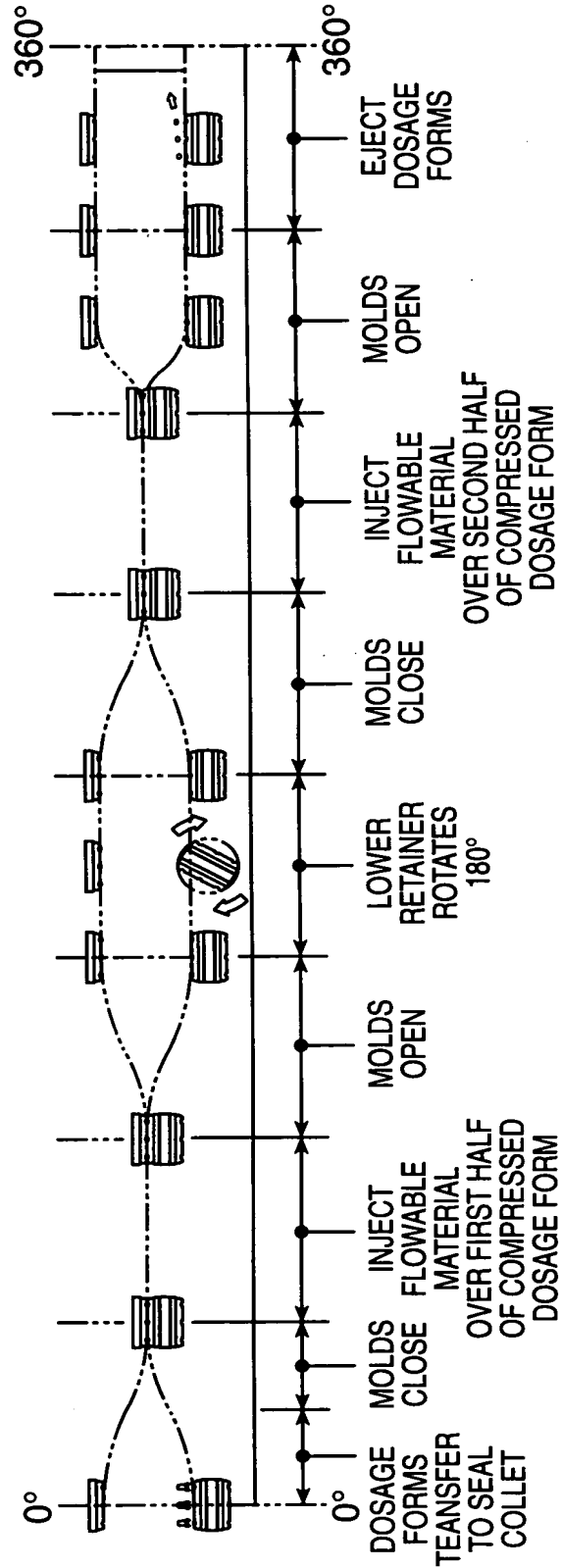
**FIG. 26C**

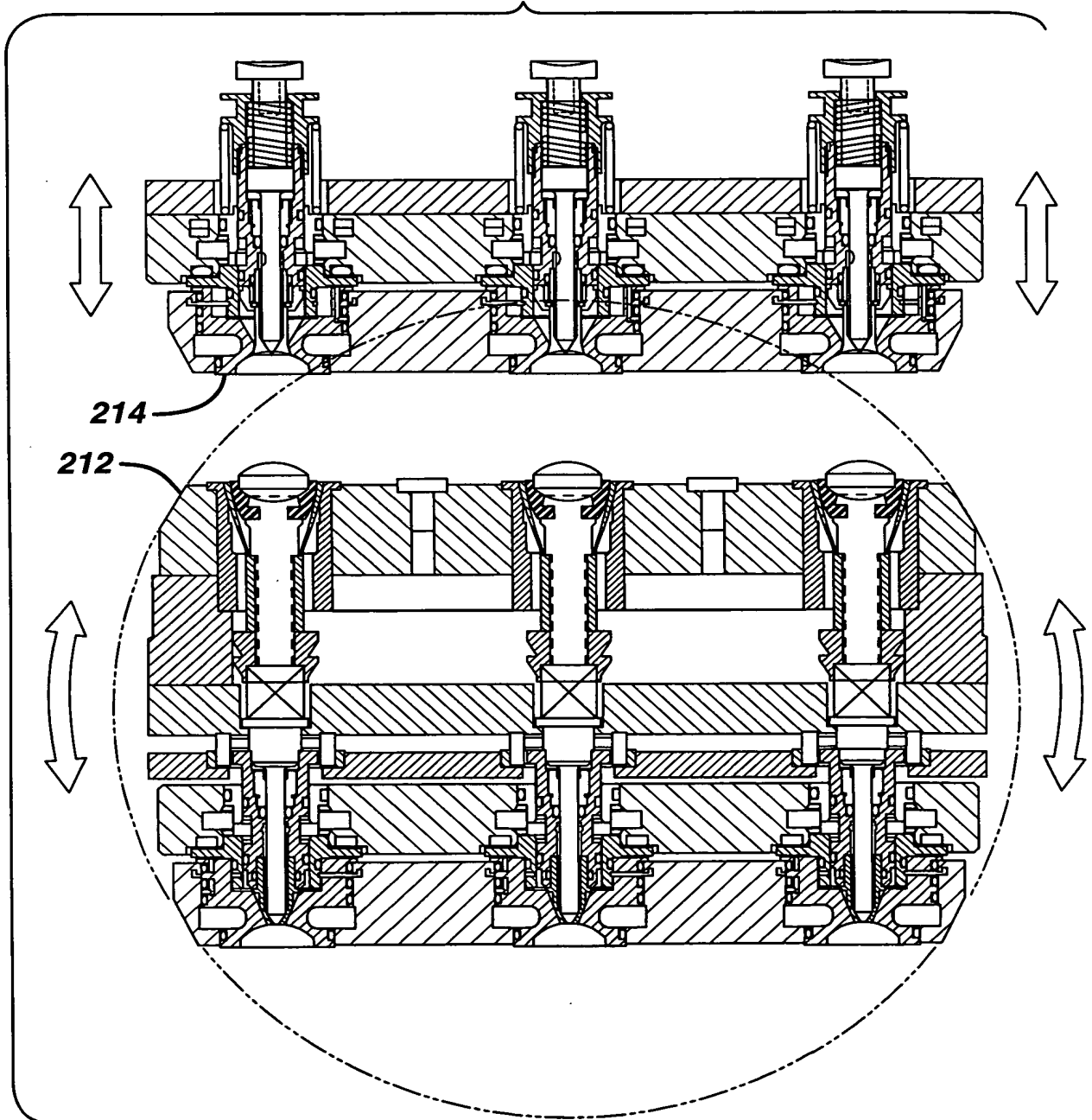
29/80

**FIG. 27A**

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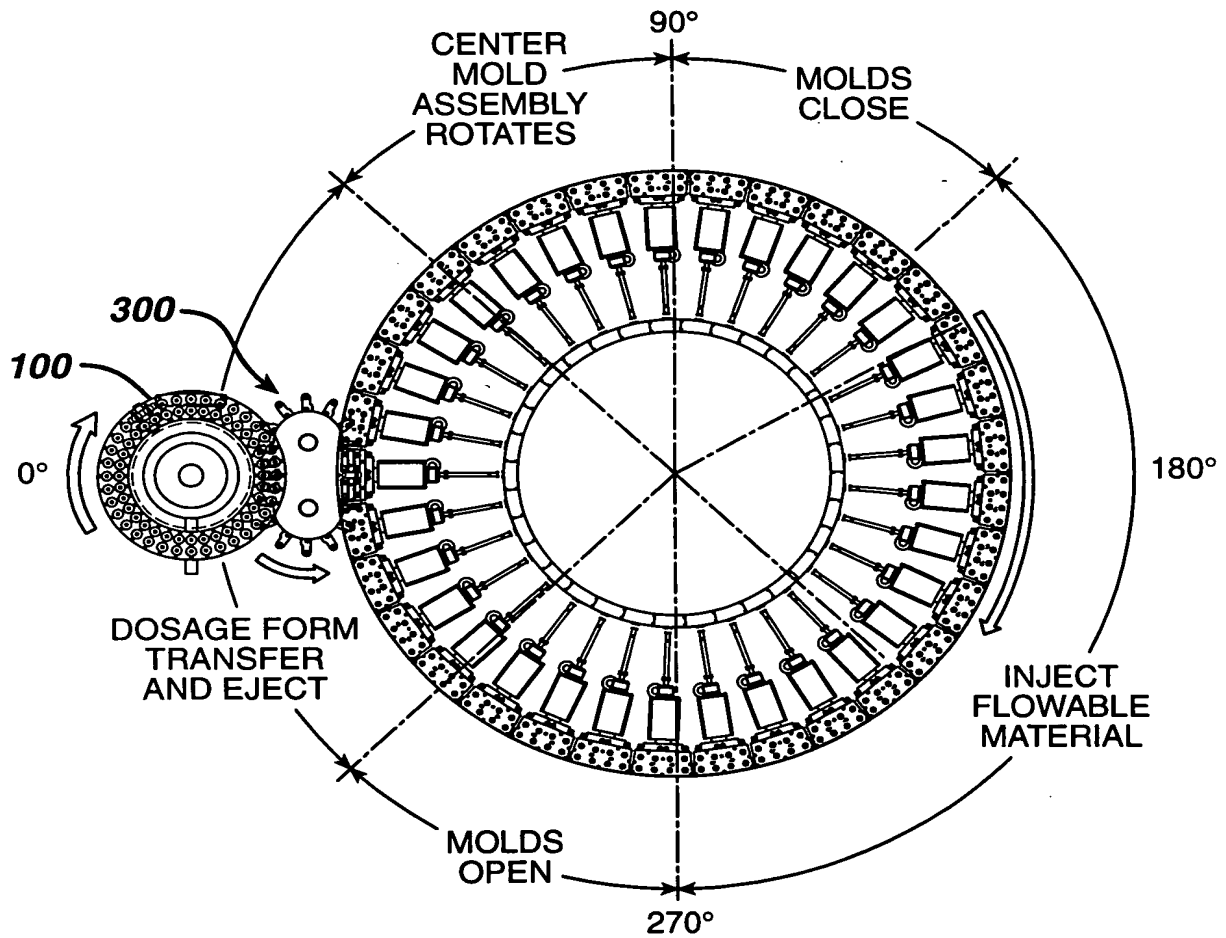
30/80

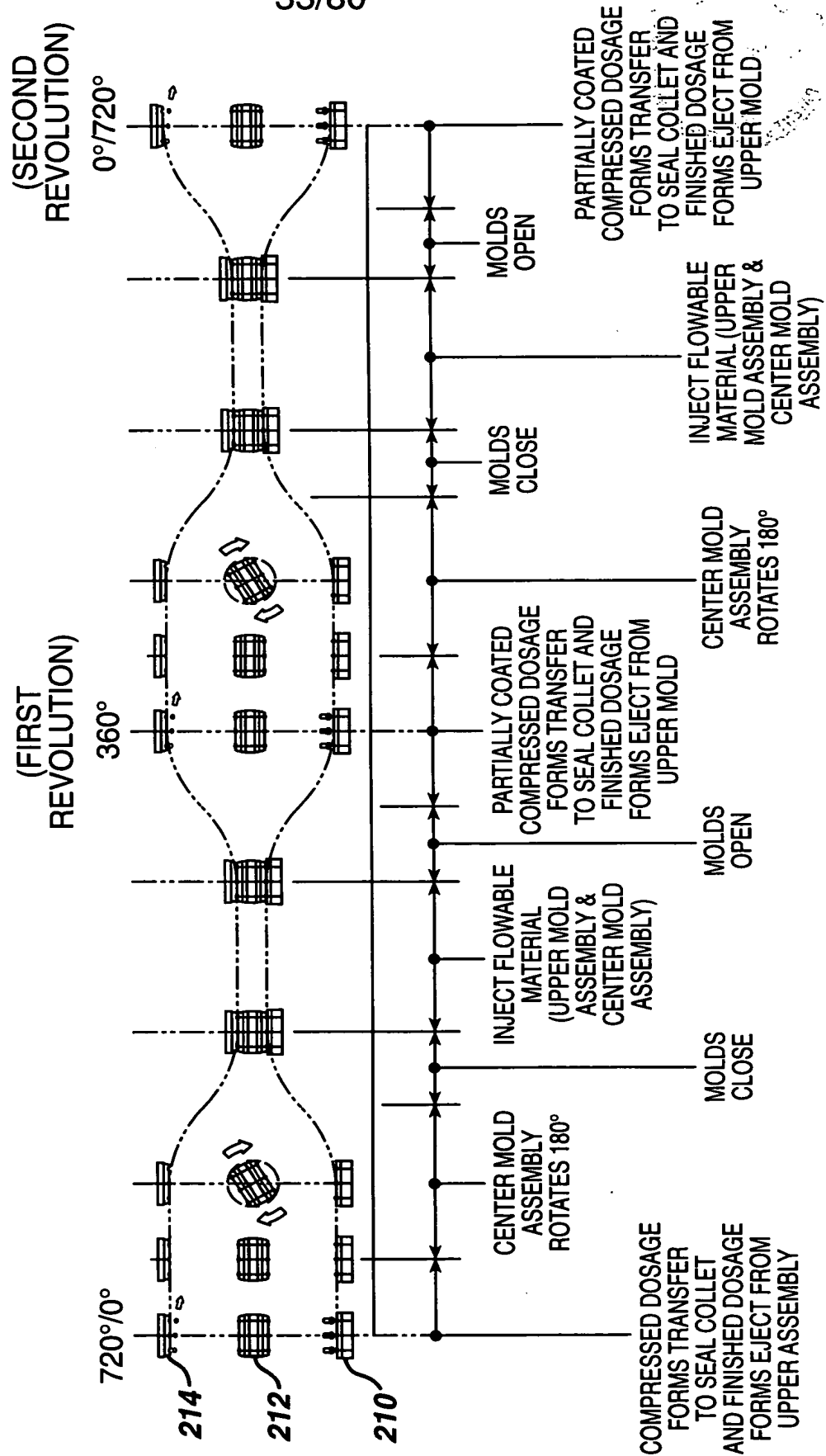
**FIG. 27B**

**FIG. 27C**

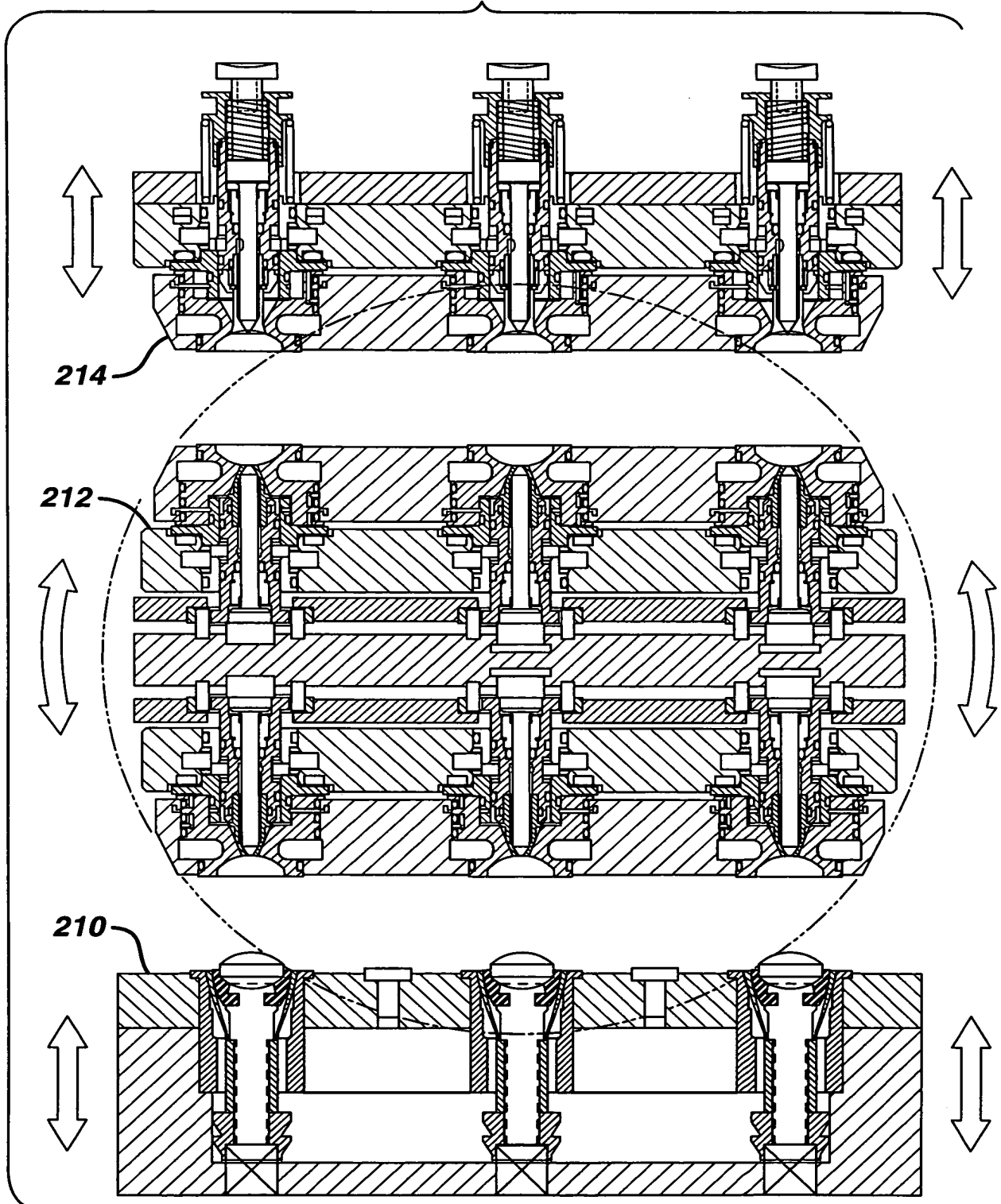


32/80

**FIG. 28A**

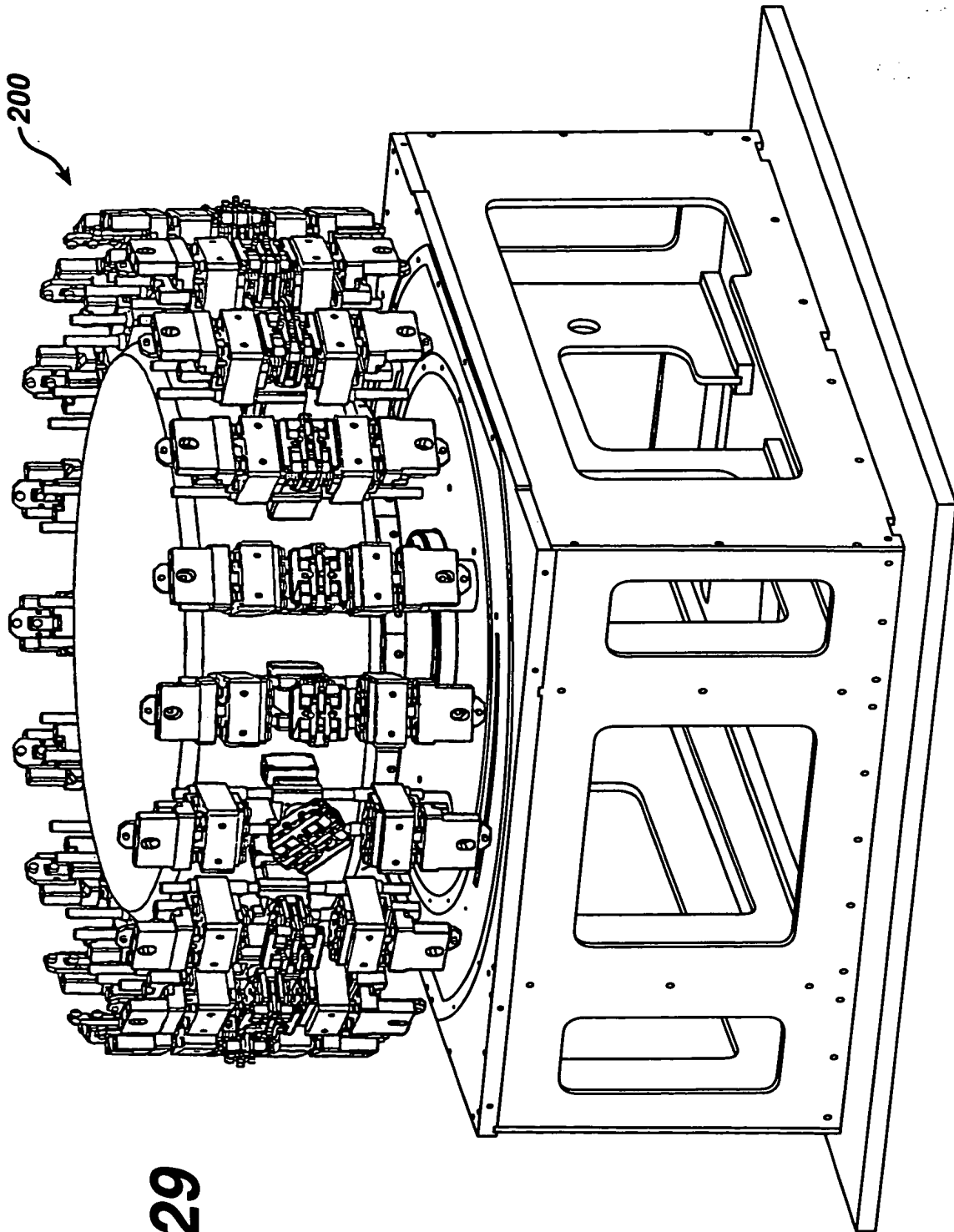


34/80

**FIG. 28C**

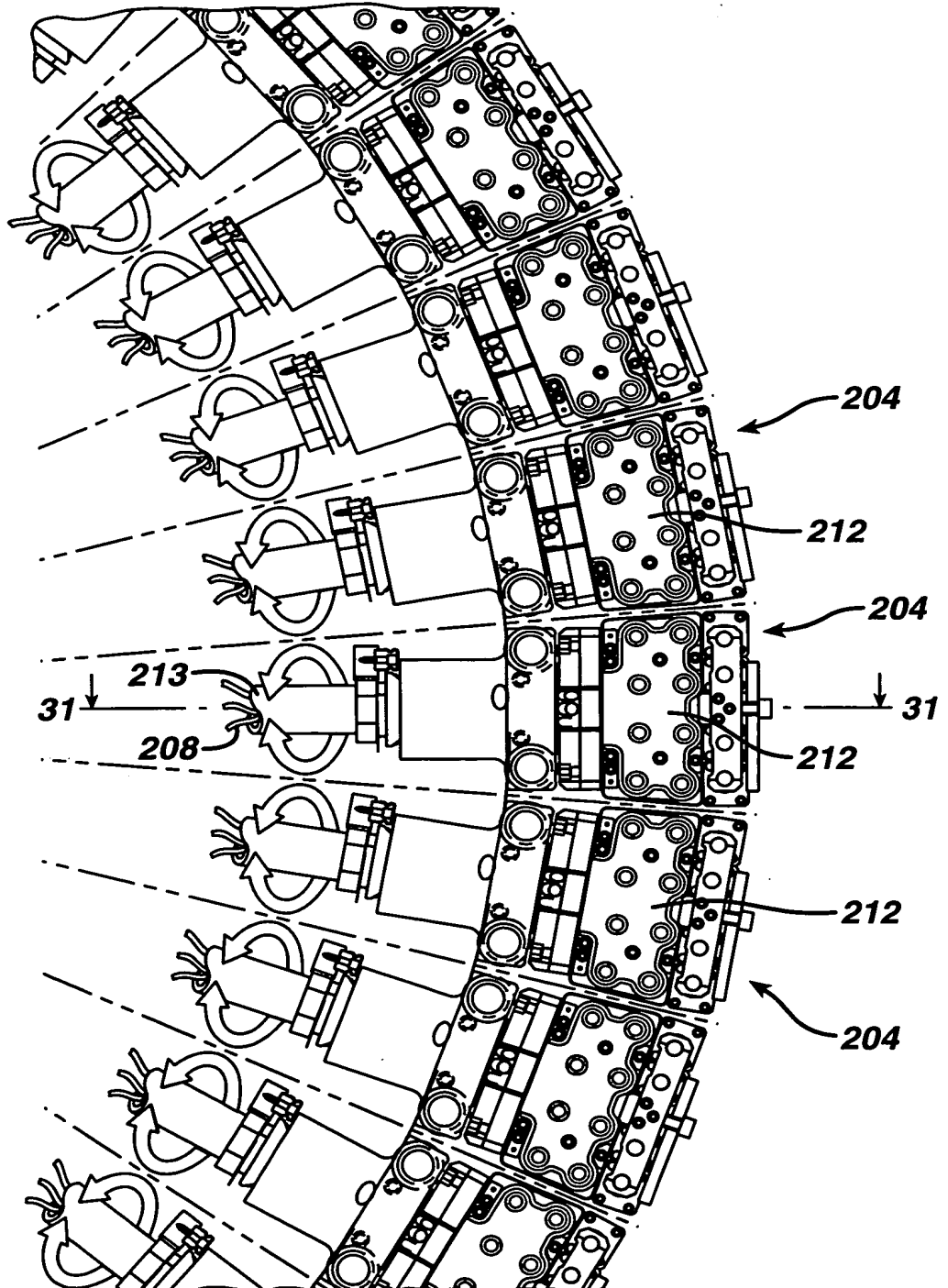
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35/80

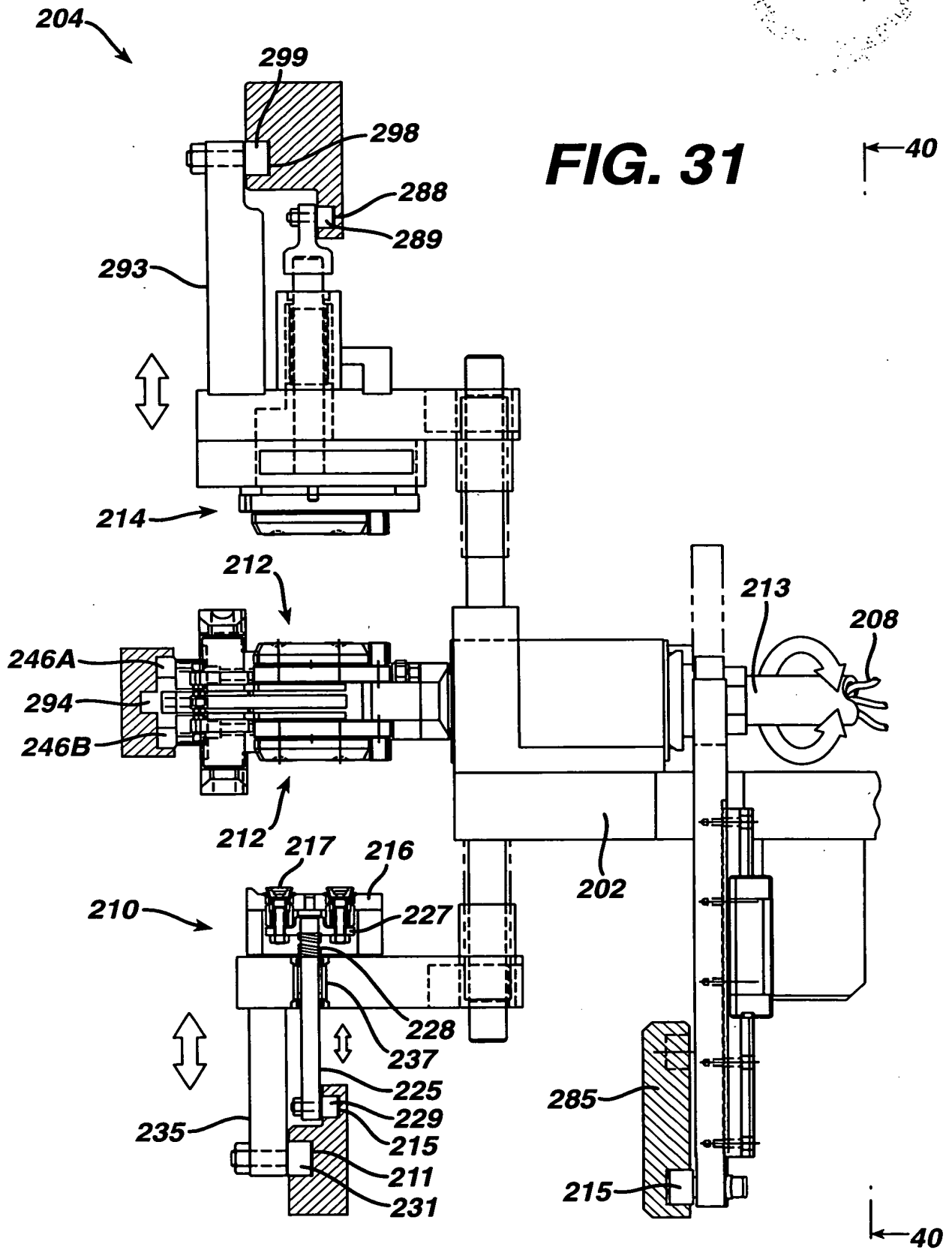
**FIG. 29**

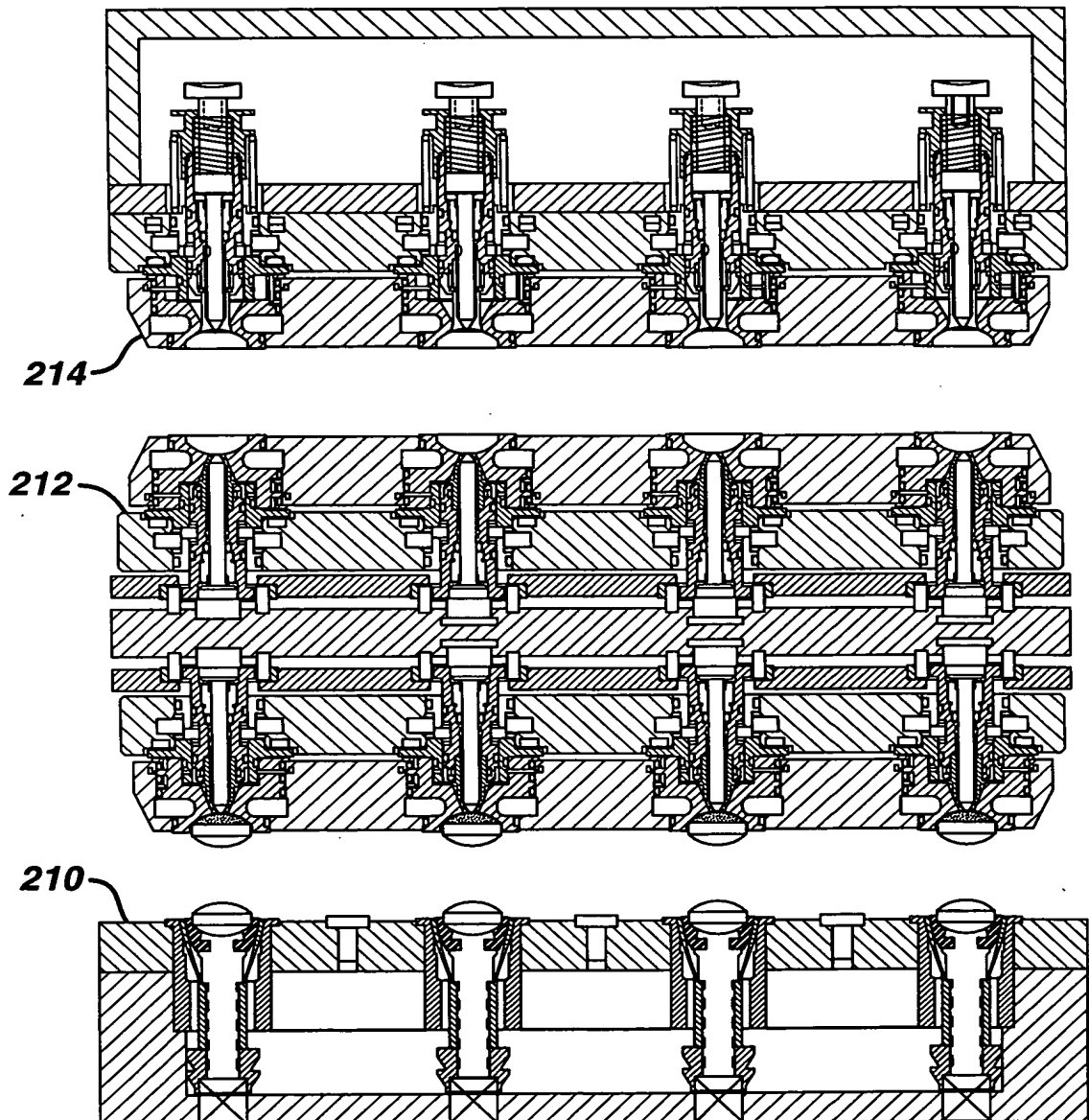
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36/80

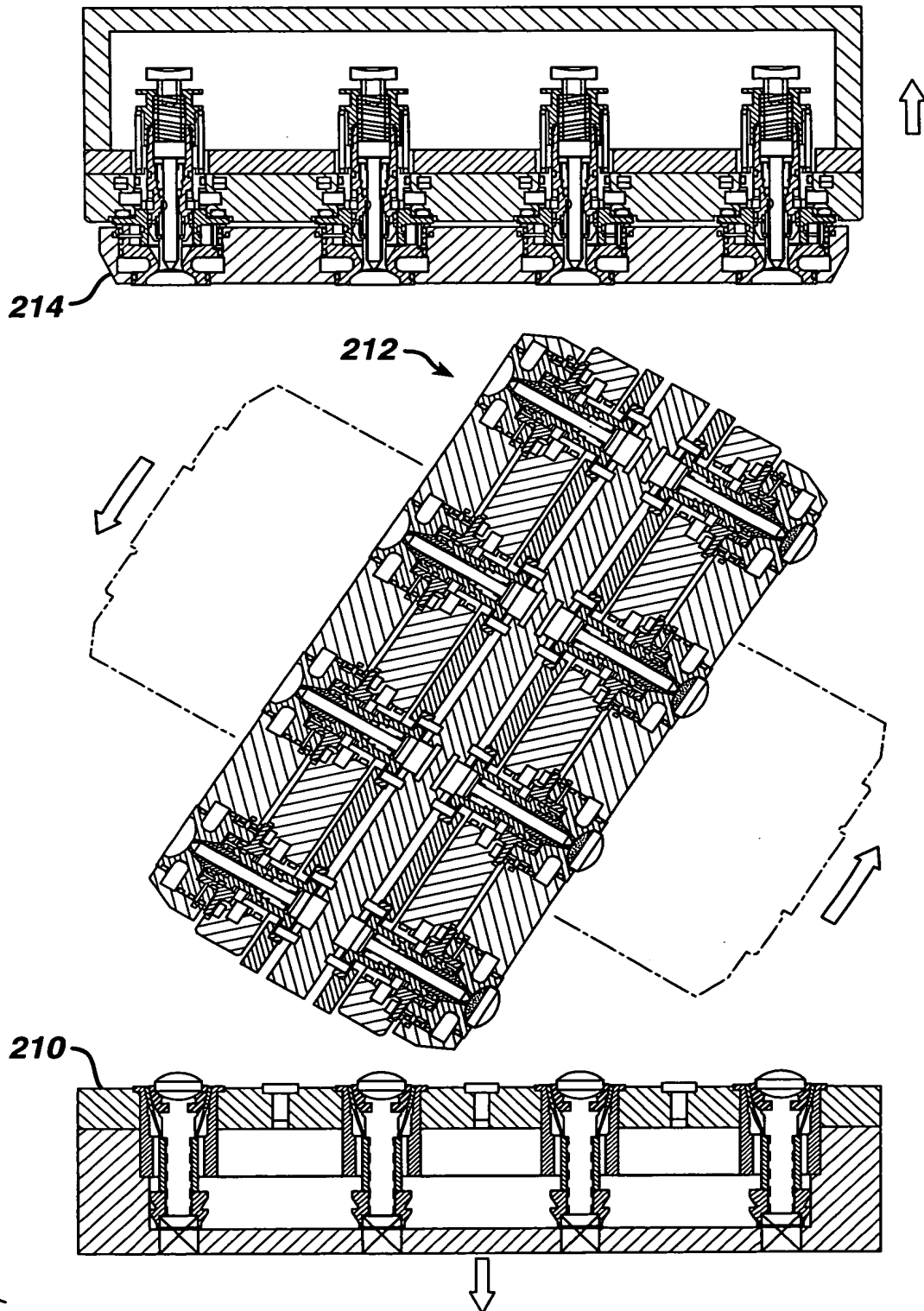
**FIG. 30**

37/80

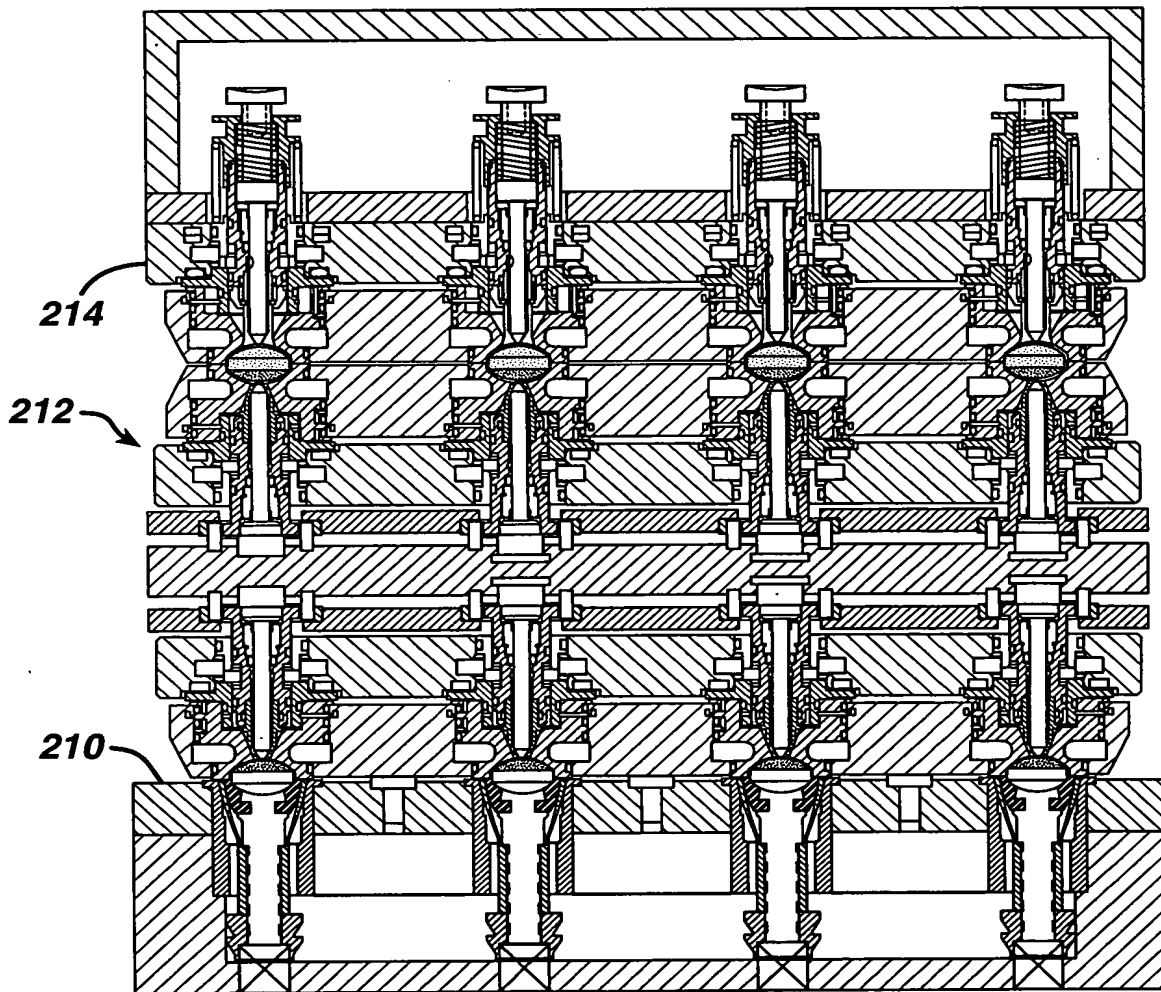


**FIG. 32**

39/80

**FIG. 33**



**FIG. 34**

41/80

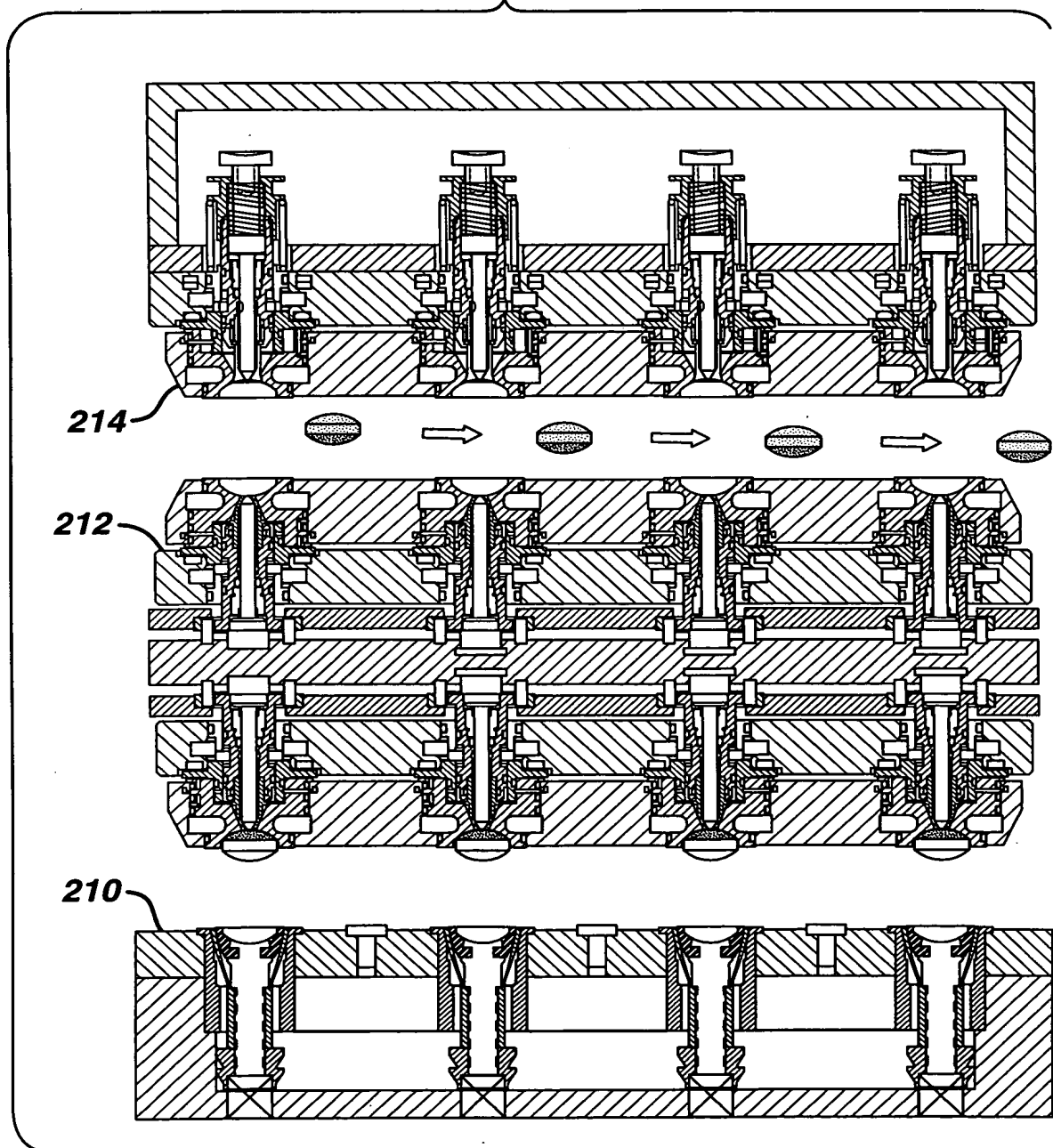
**FIG. 35**

FIG. 39A

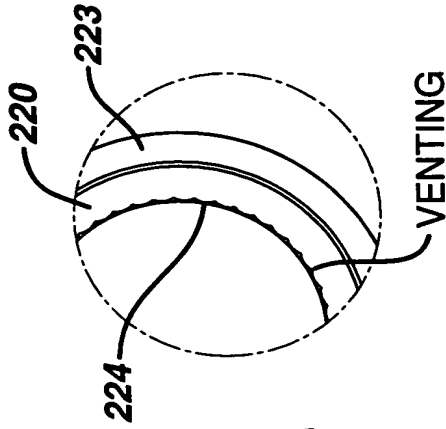


FIG. 39

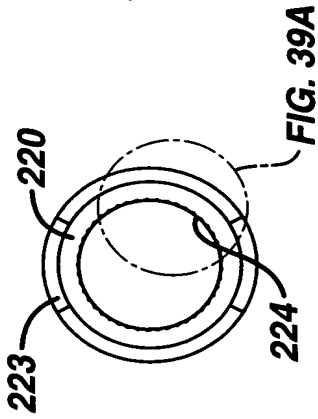


FIG. 38

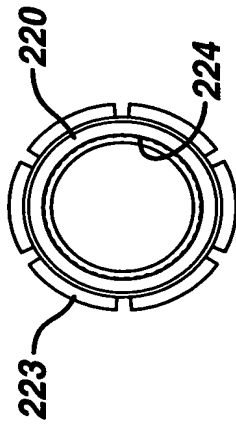


FIG. 37

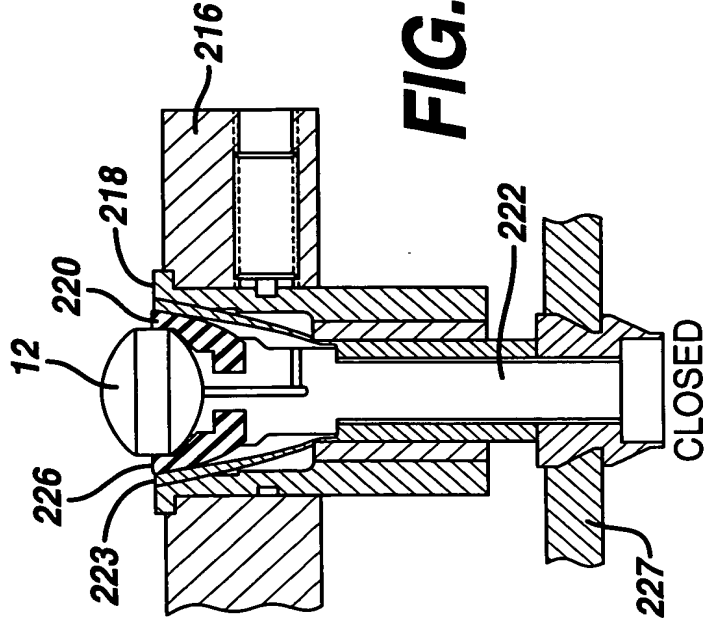
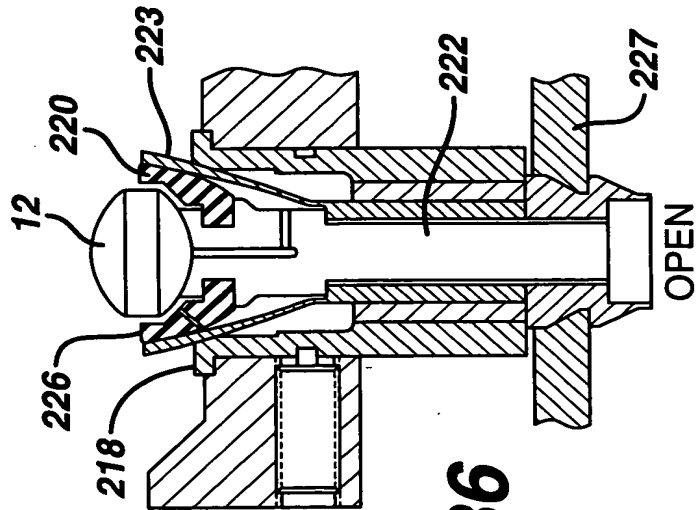
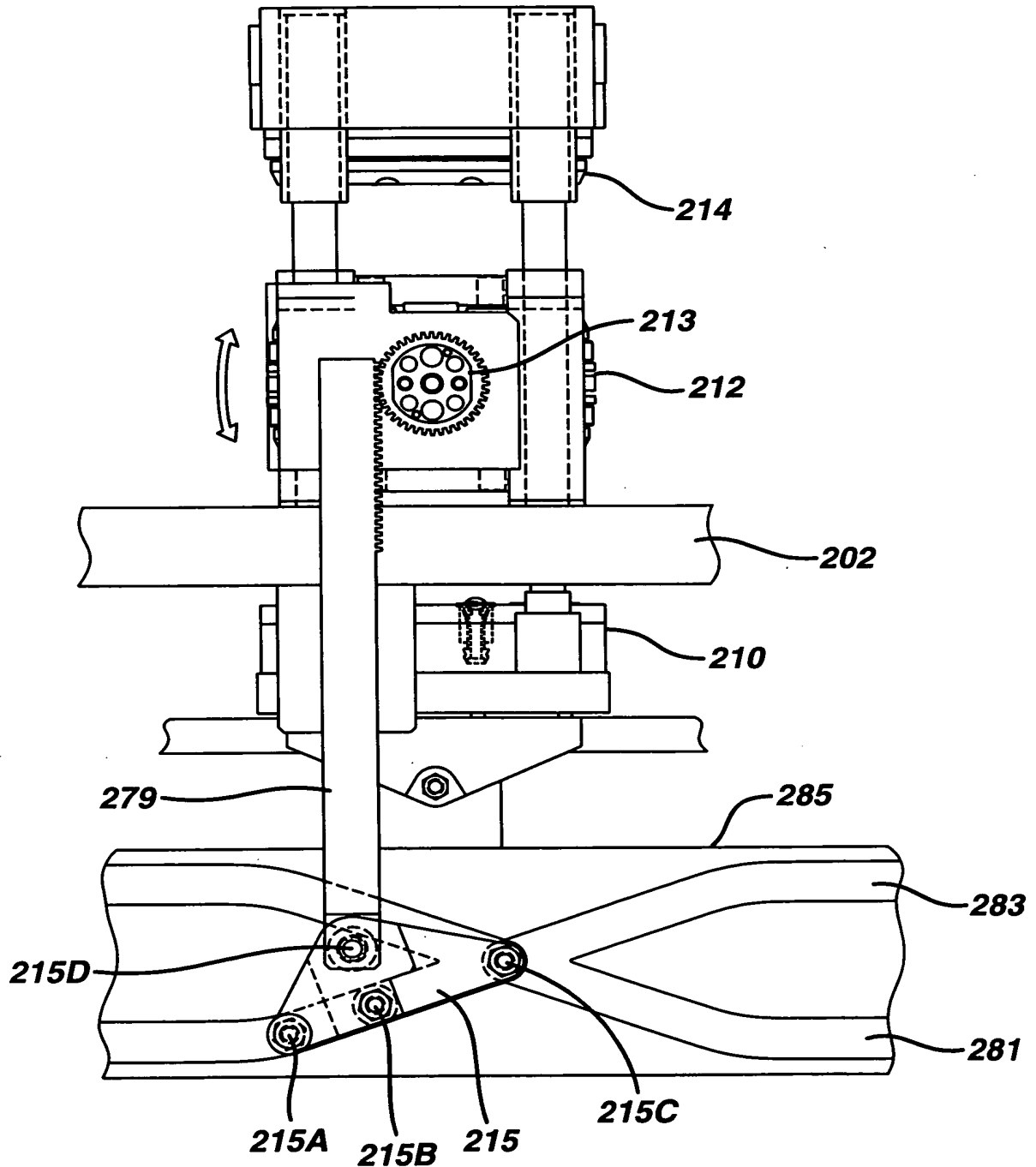


FIG. 36



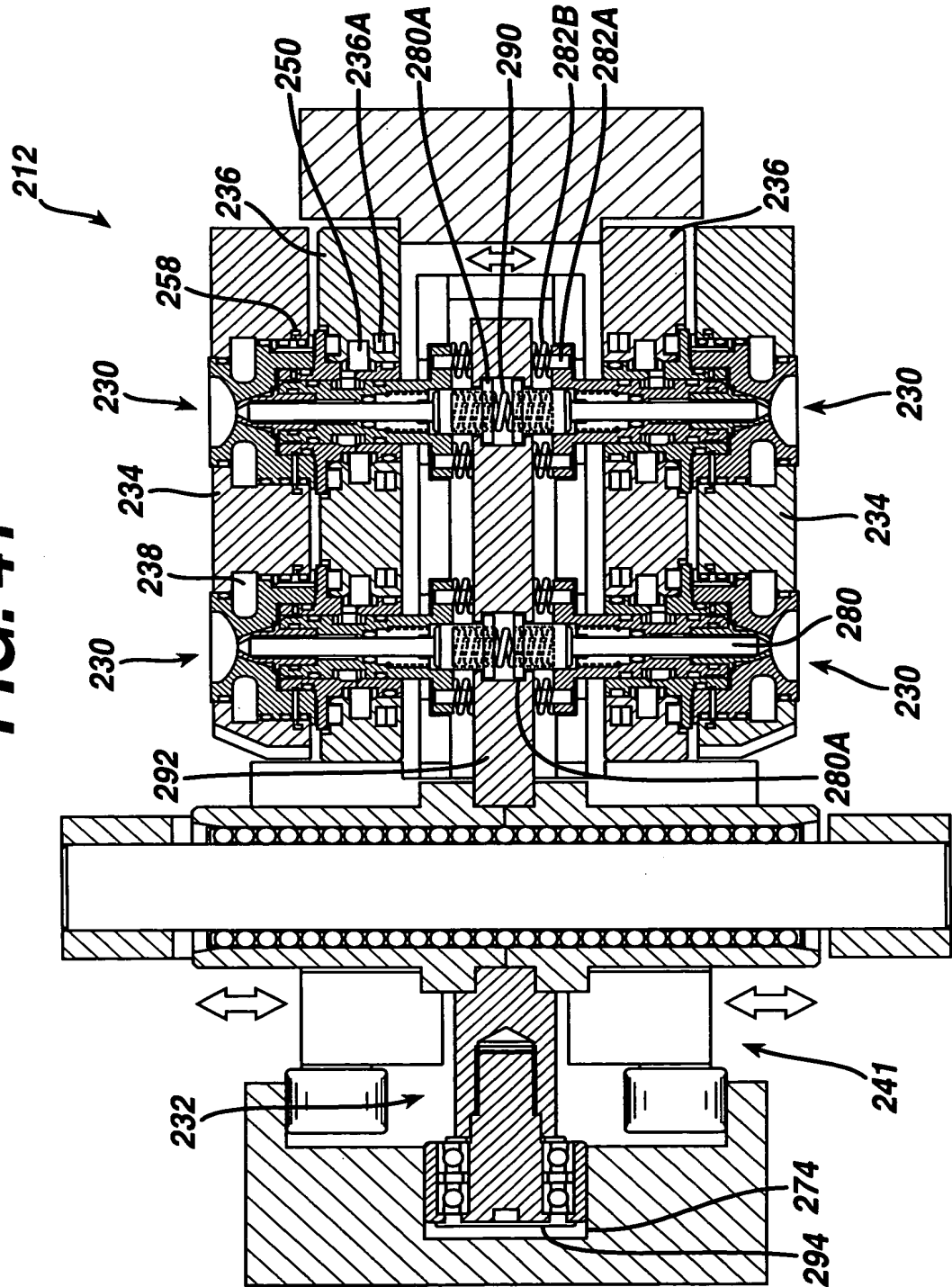
43/80

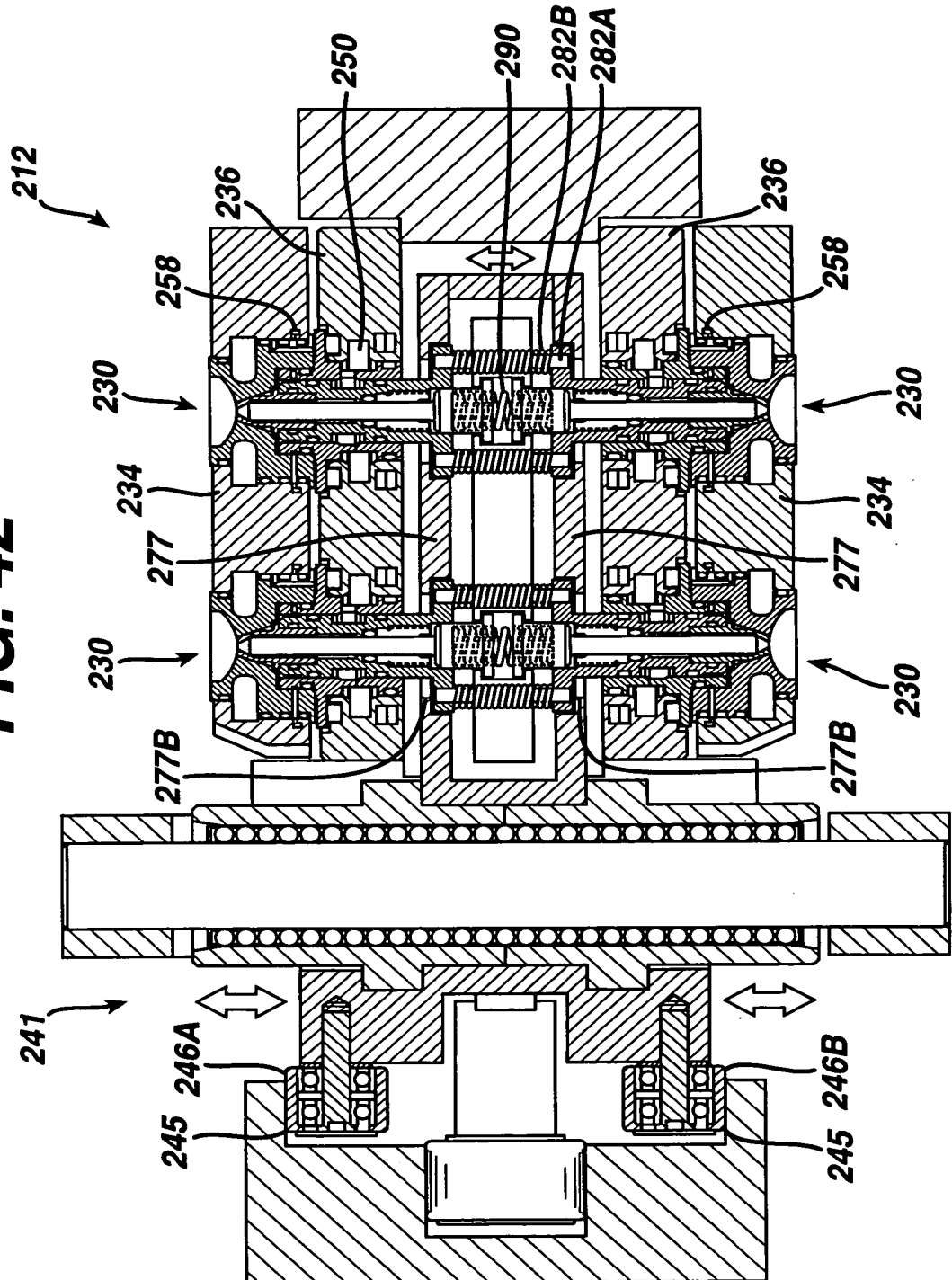
**FIG. 40**

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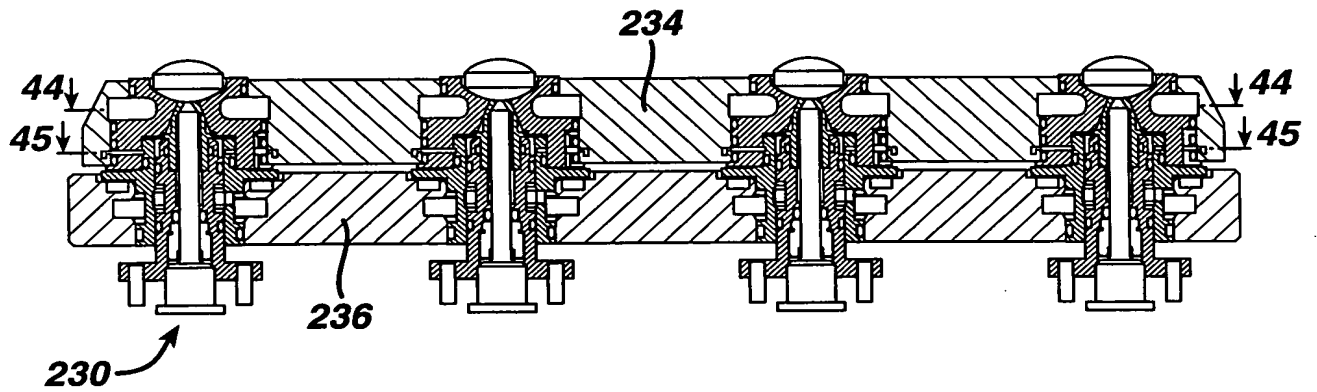
44/80

**FIG. 41**

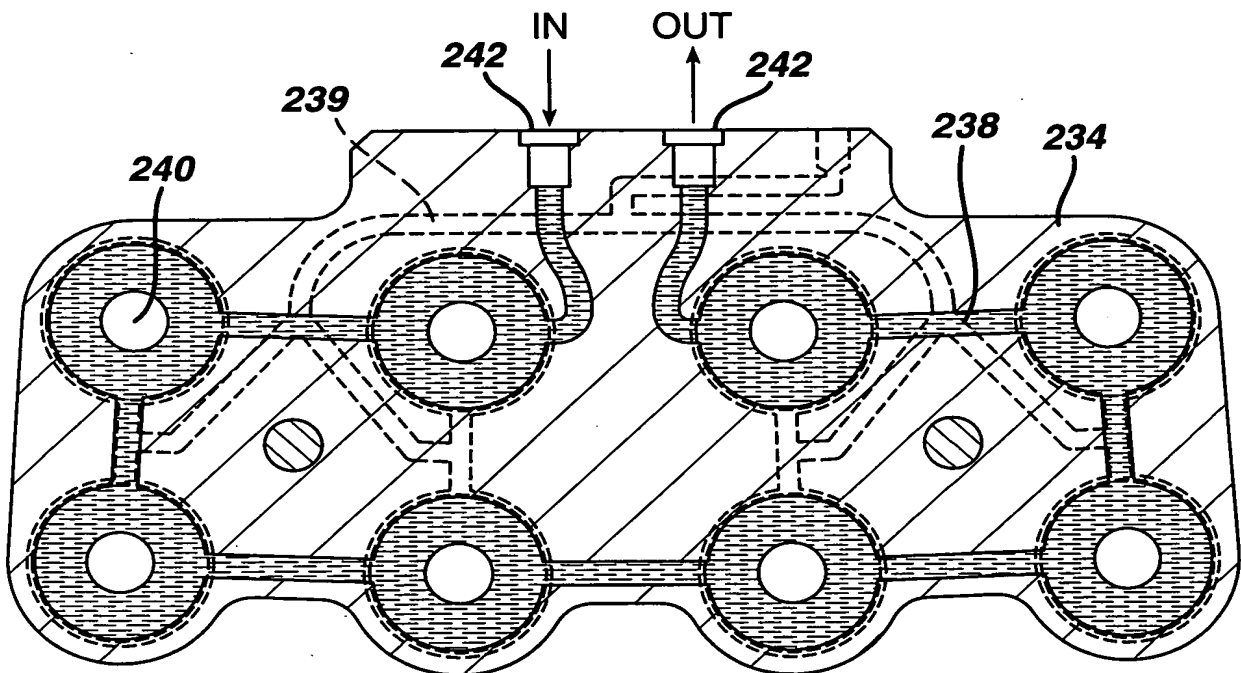


**FIG. 42**

46/80

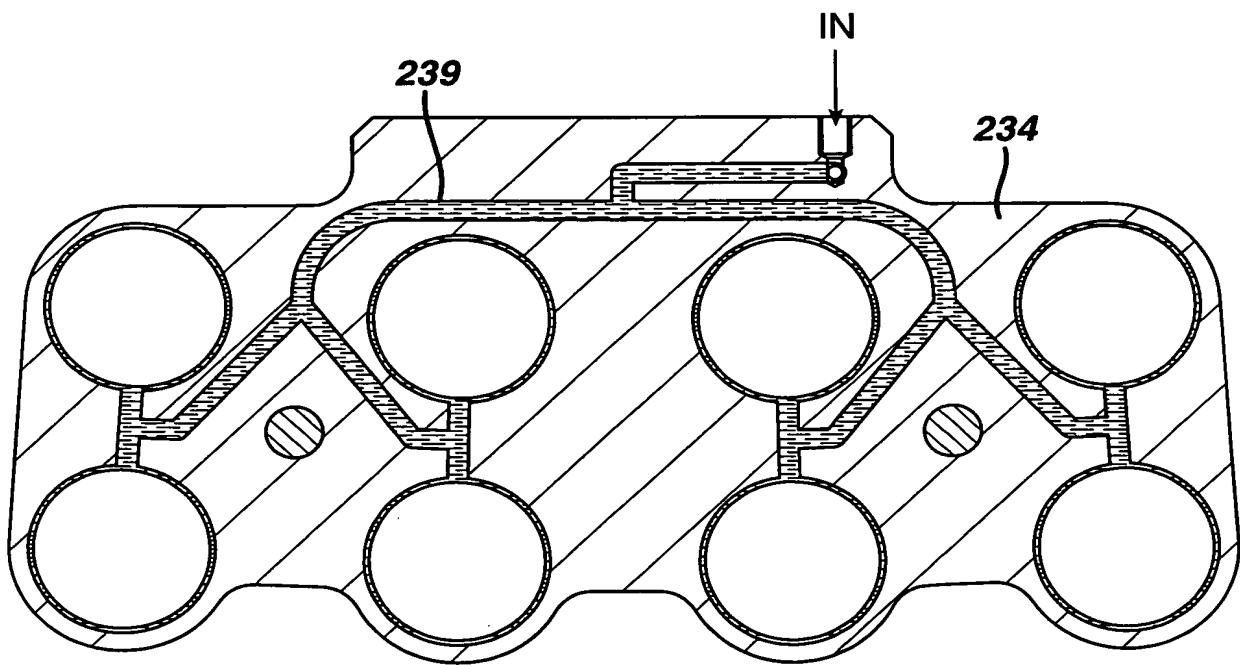
**FIG. 43**

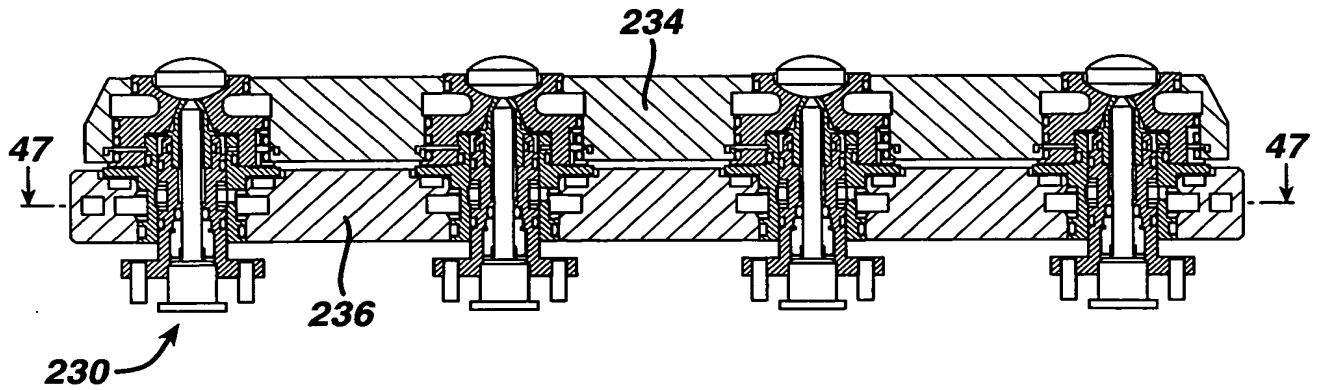
47/80

**FIG. 44**

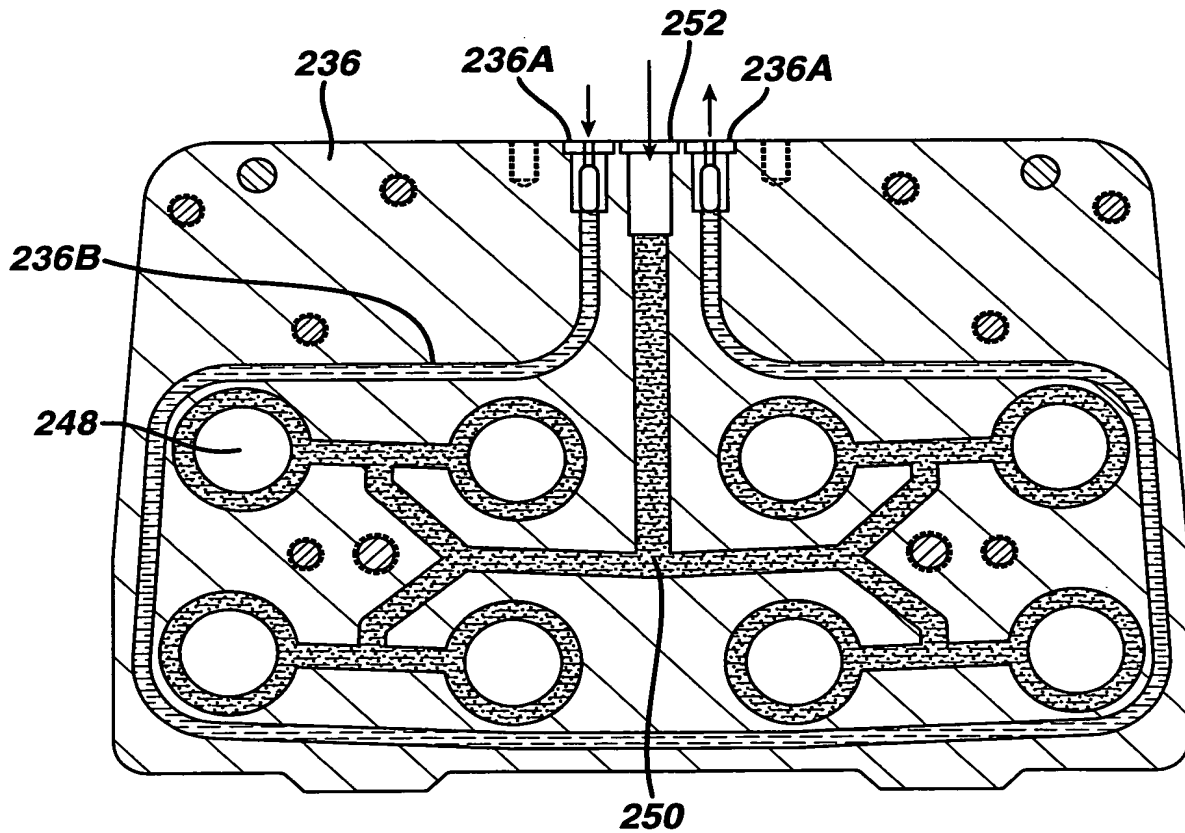


48/80

**FIG. 45**

**FIG. 46**

50/80

**FIG. 47**

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51/80

FIG. 50

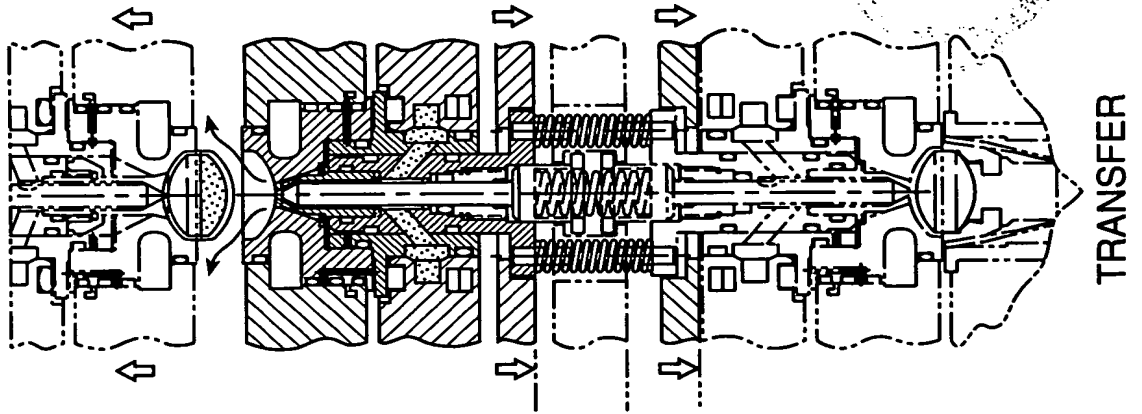


FIG. 49

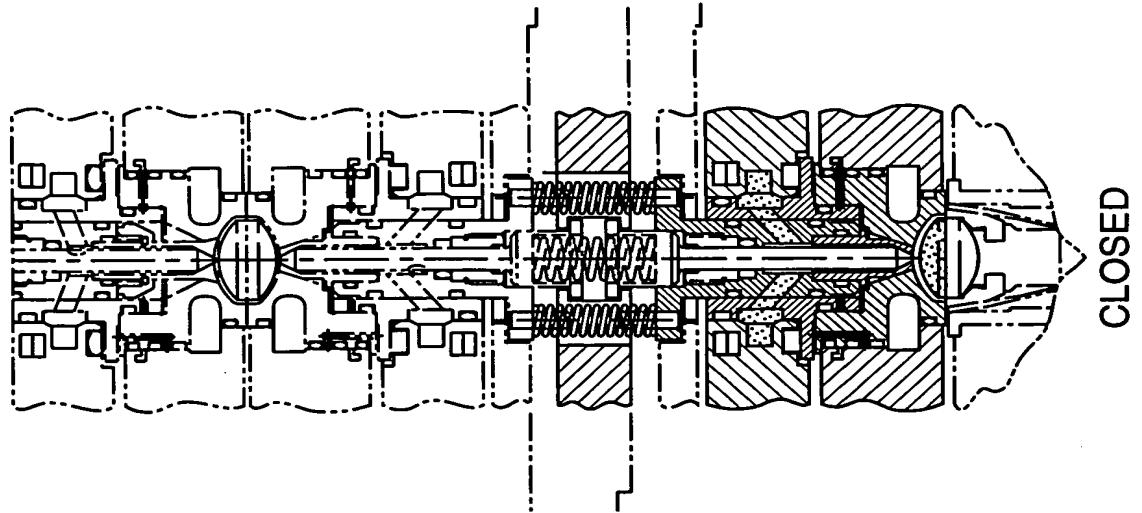
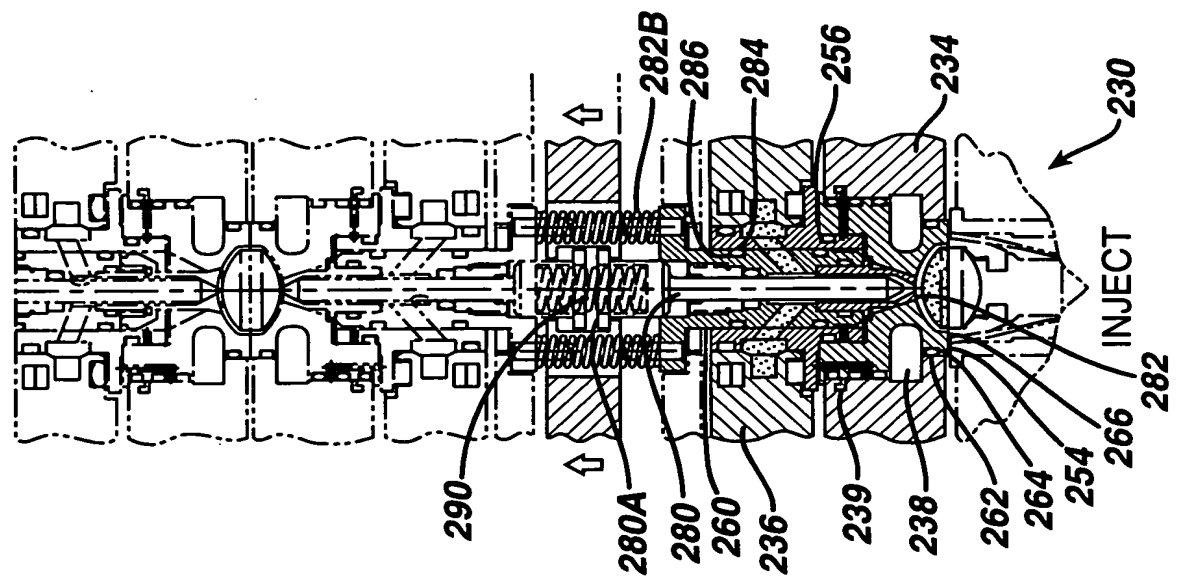
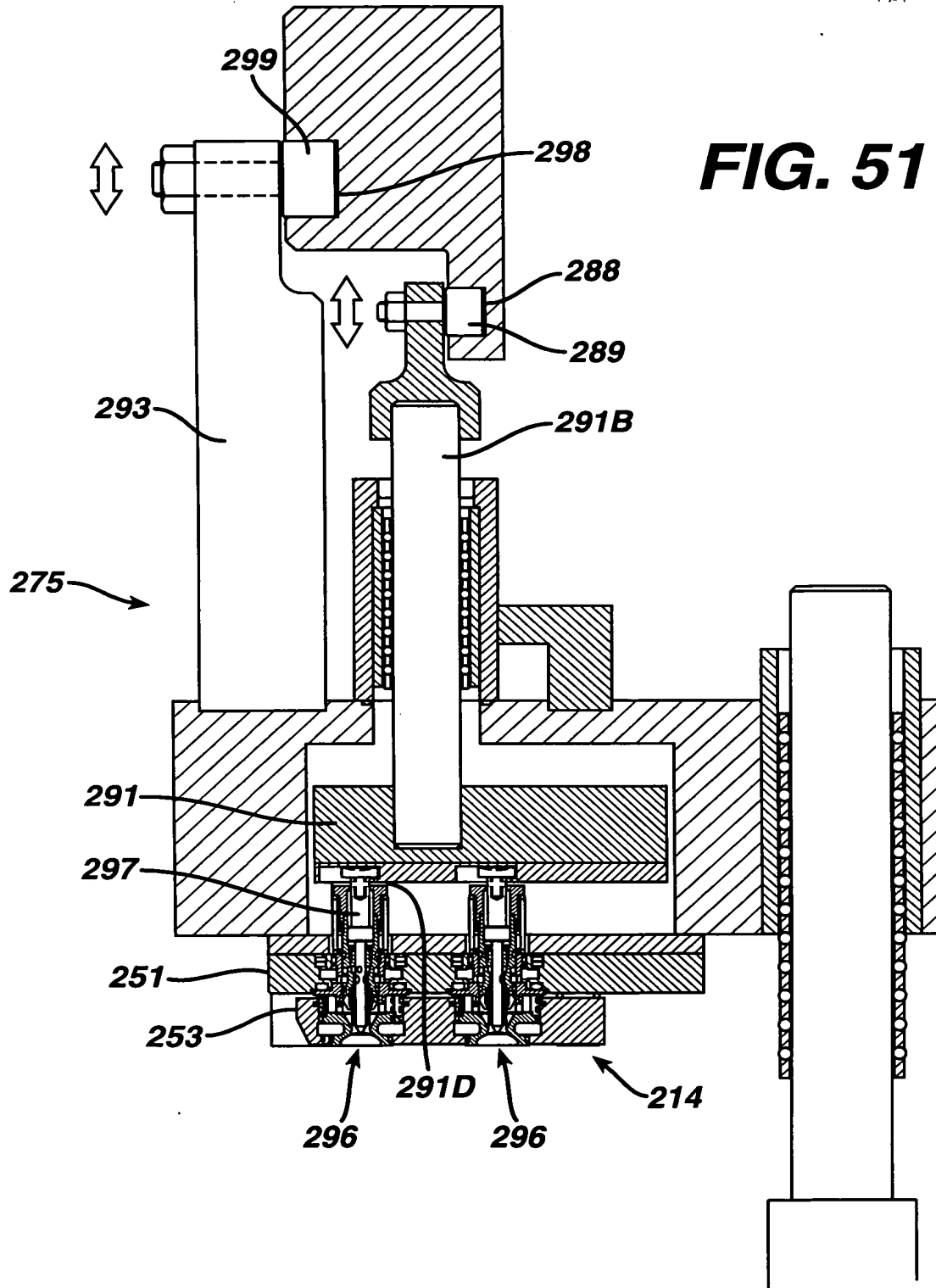


FIG. 48



52/80



53/80

FIG. 54

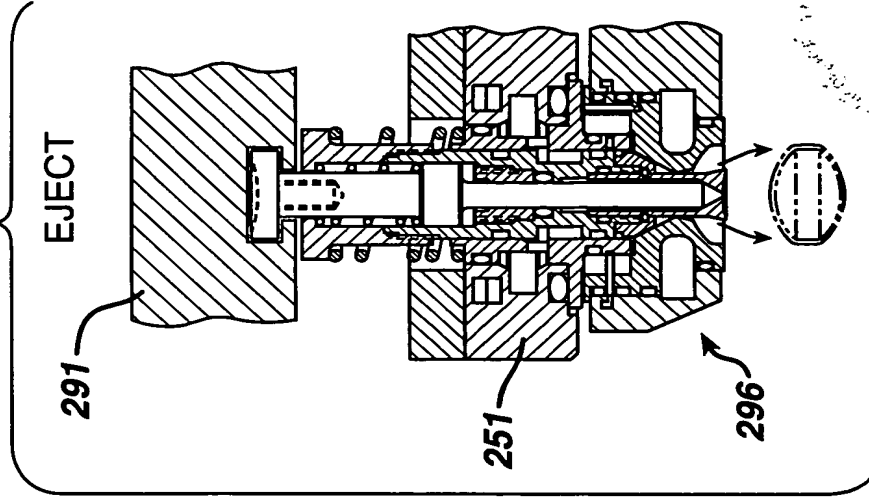


FIG. 53

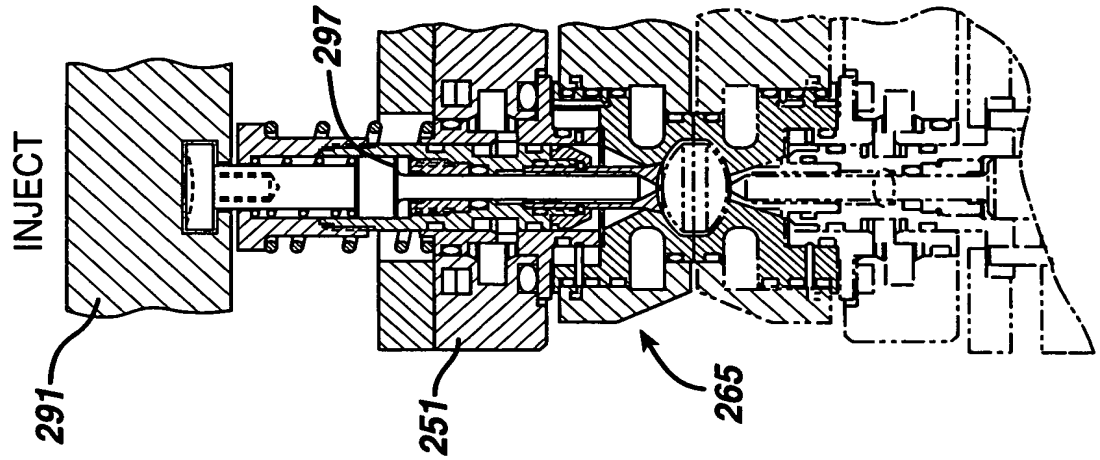
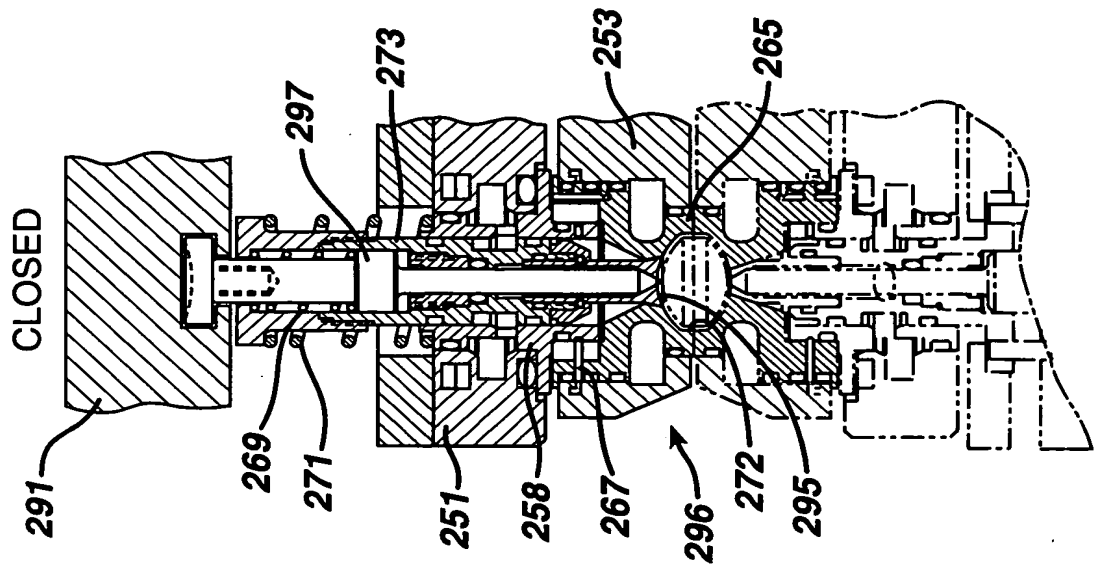
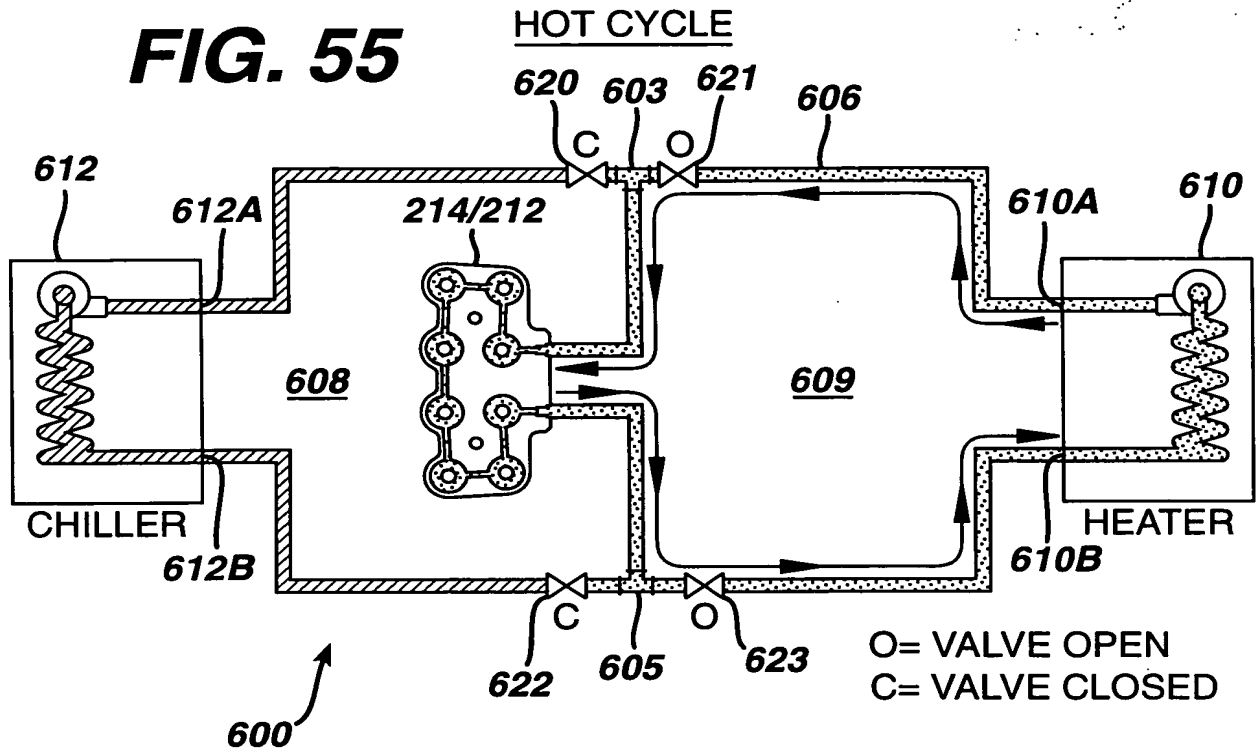
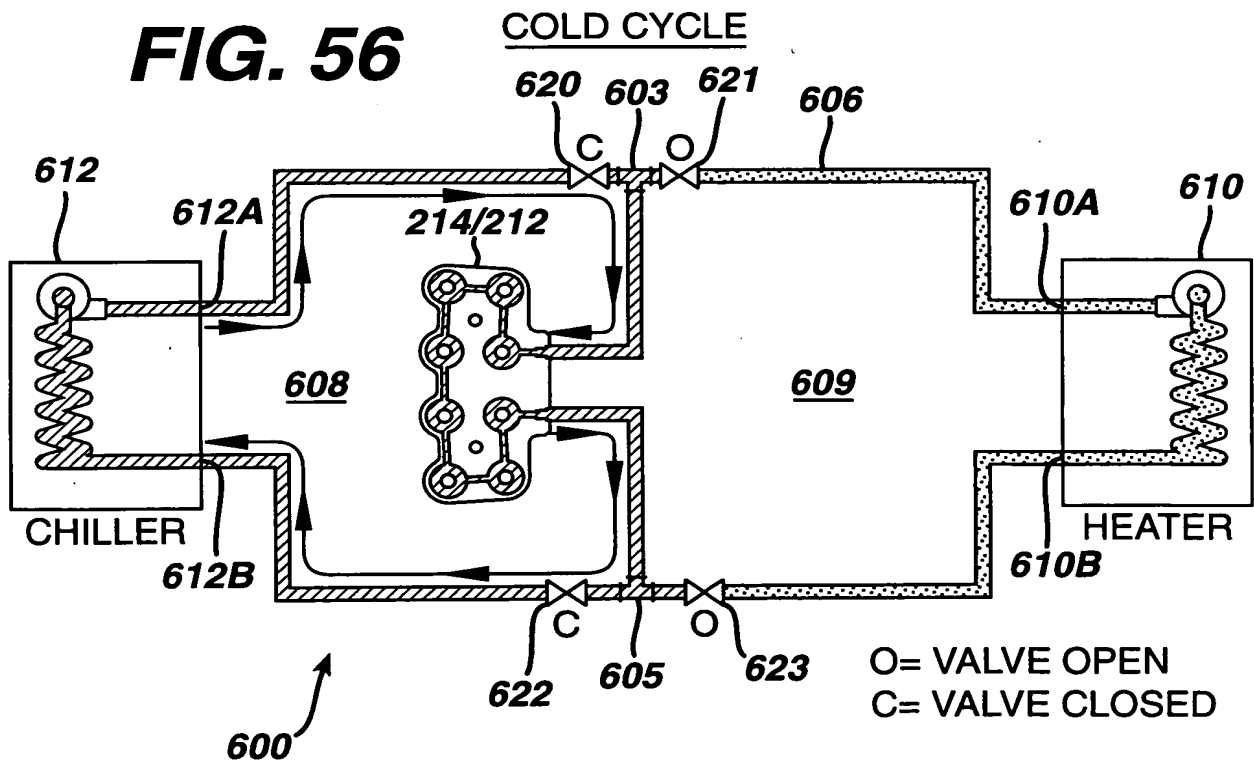


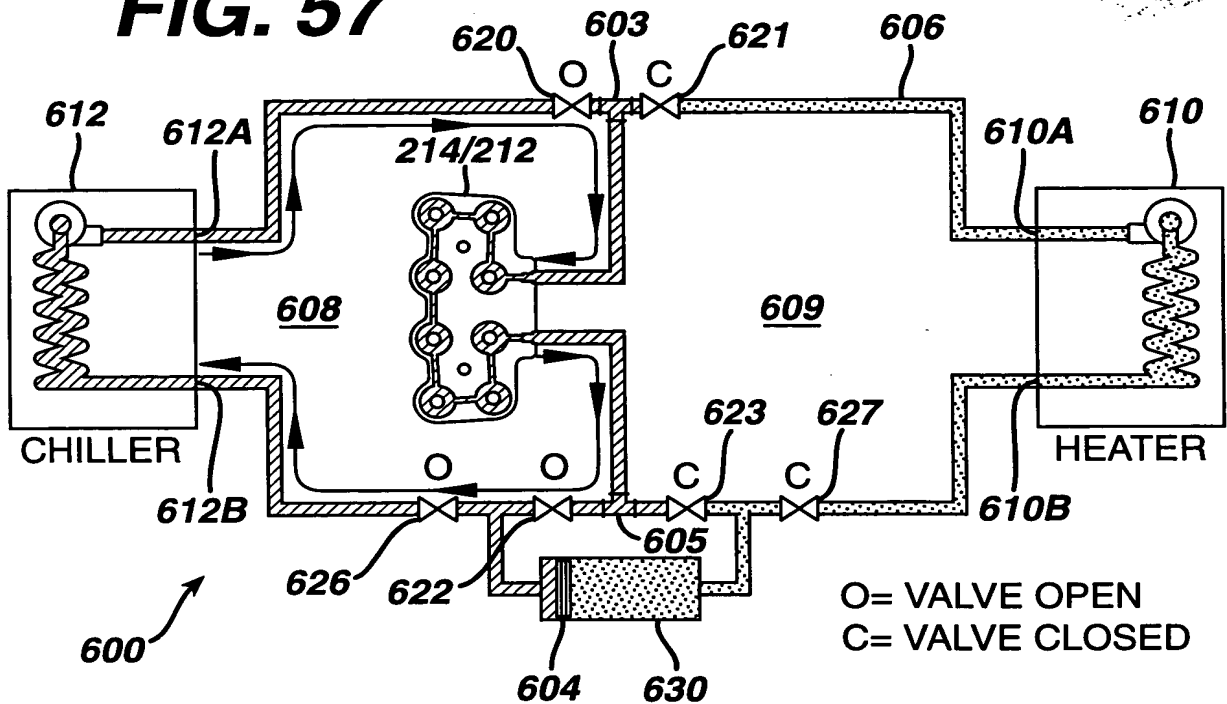
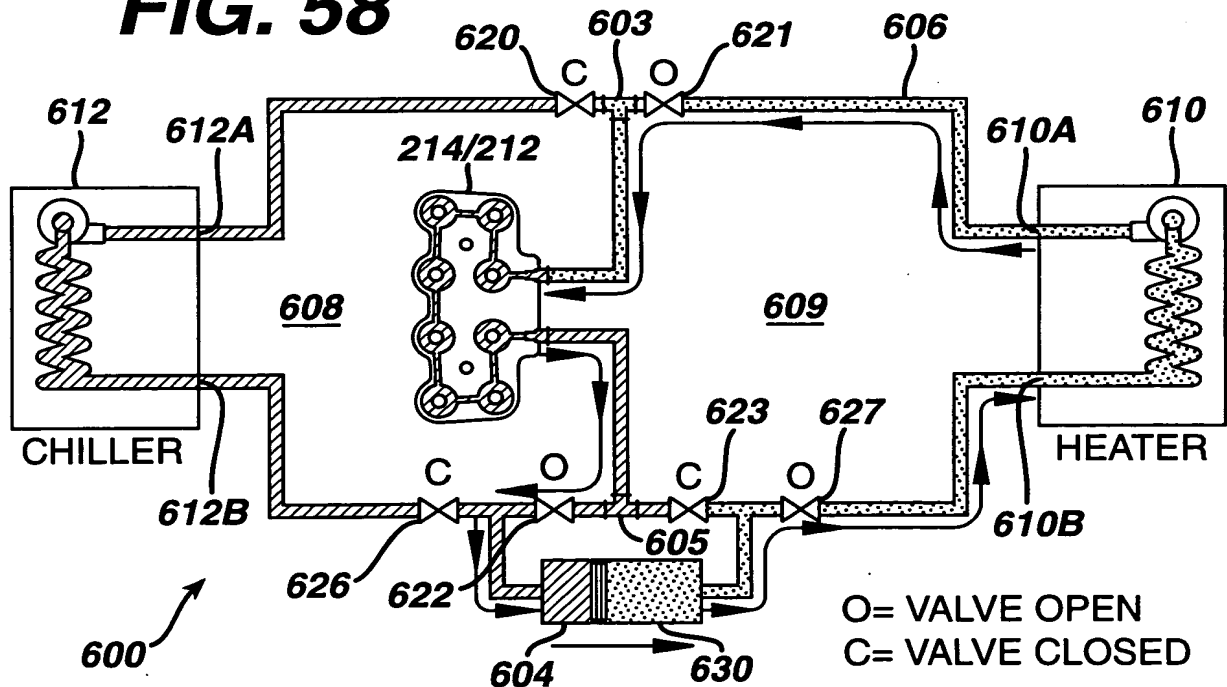
FIG. 52



54/80

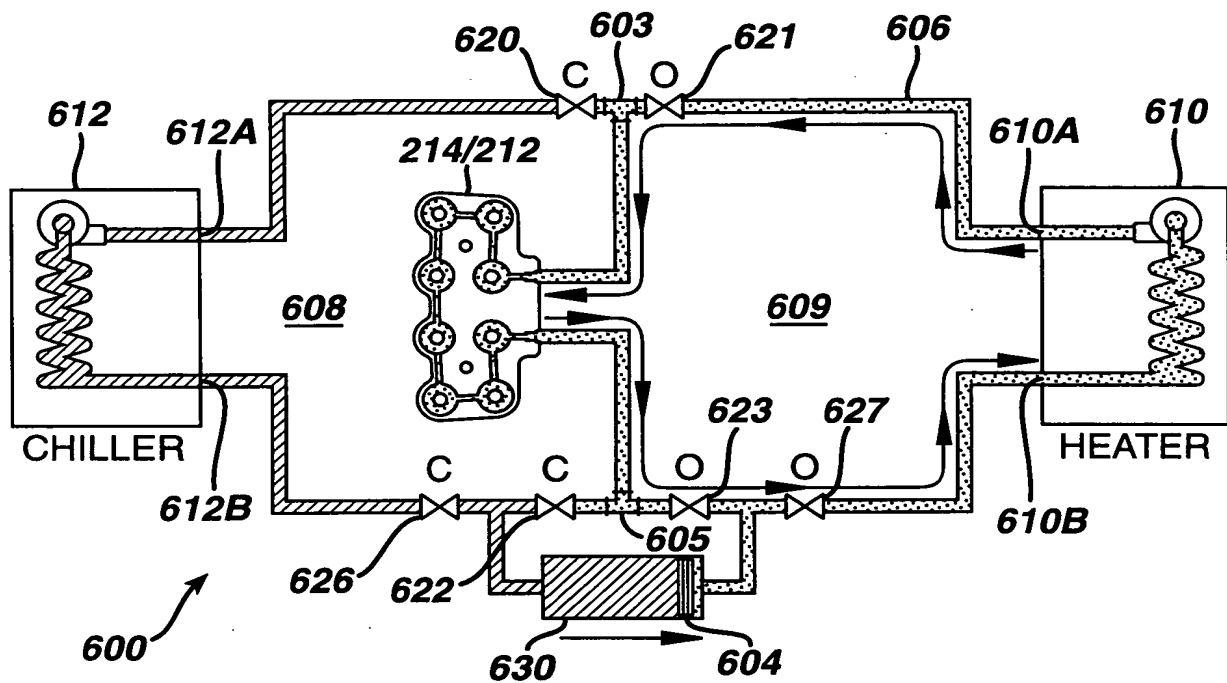
**FIG. 55****FIG. 56**

55/80

**FIG. 57****FIG. 58**

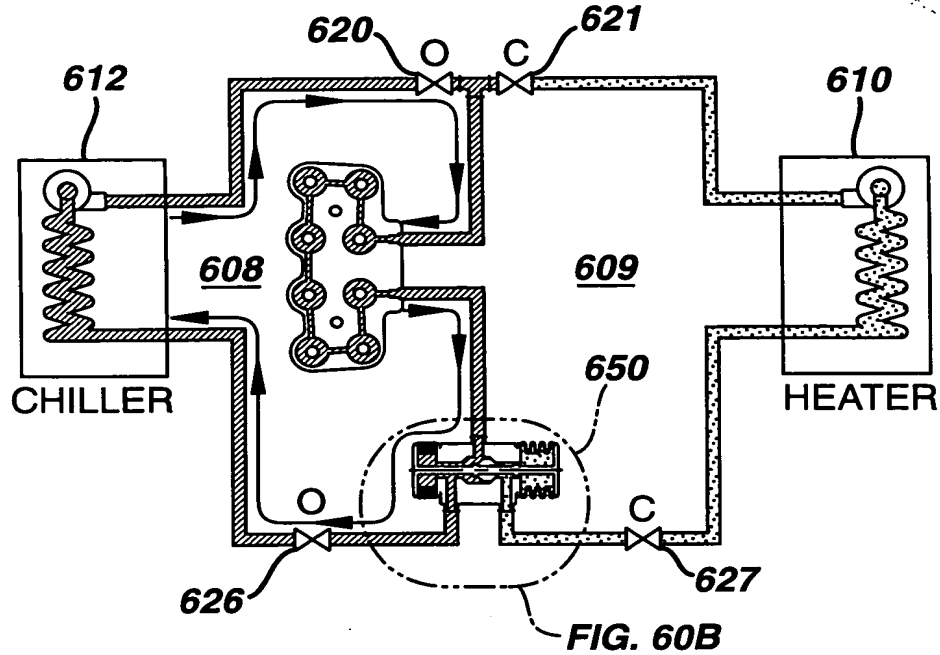


56/80

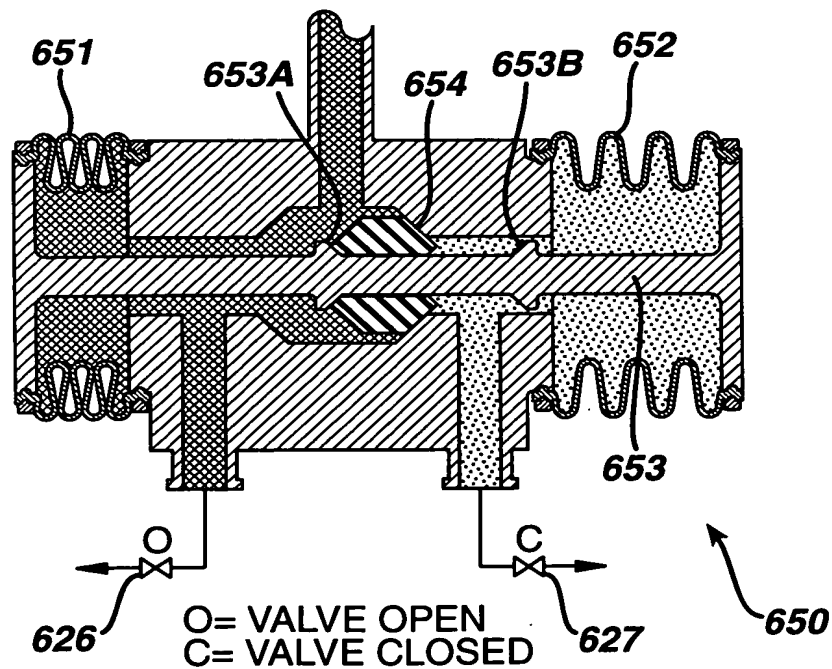
**FIG. 59**

O= VALVE OPEN  
 C= VALVE CLOSED

57/80

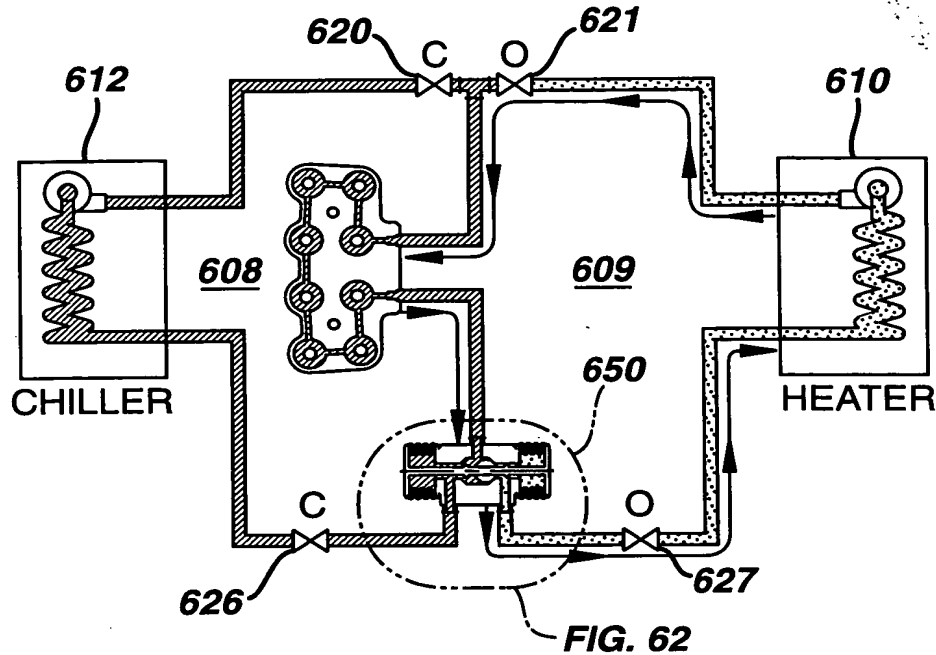
**FIG. 60A**

O= VALVE OPEN  
 C= VALVE CLOSED

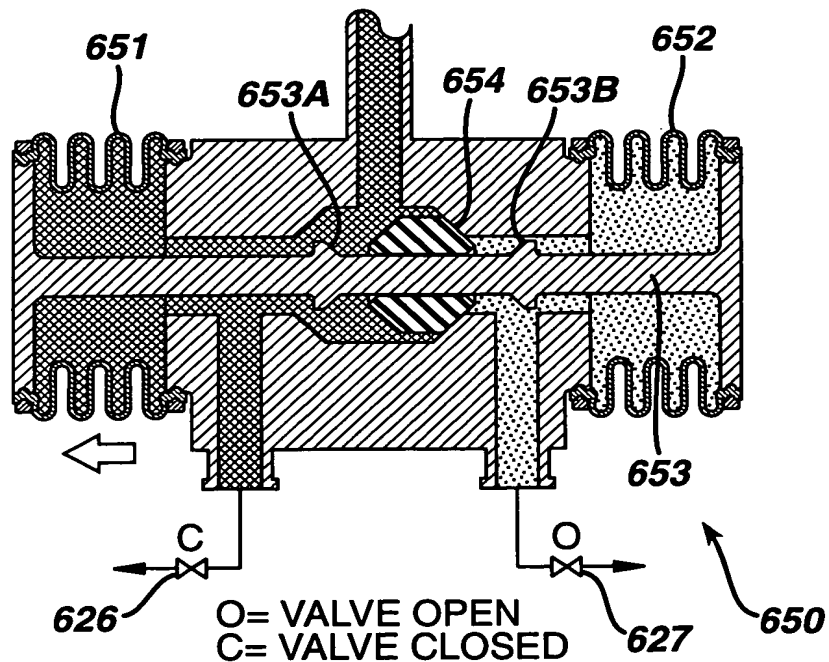
**FIG. 60B**

O= VALVE OPEN  
 C= VALVE CLOSED

58/80

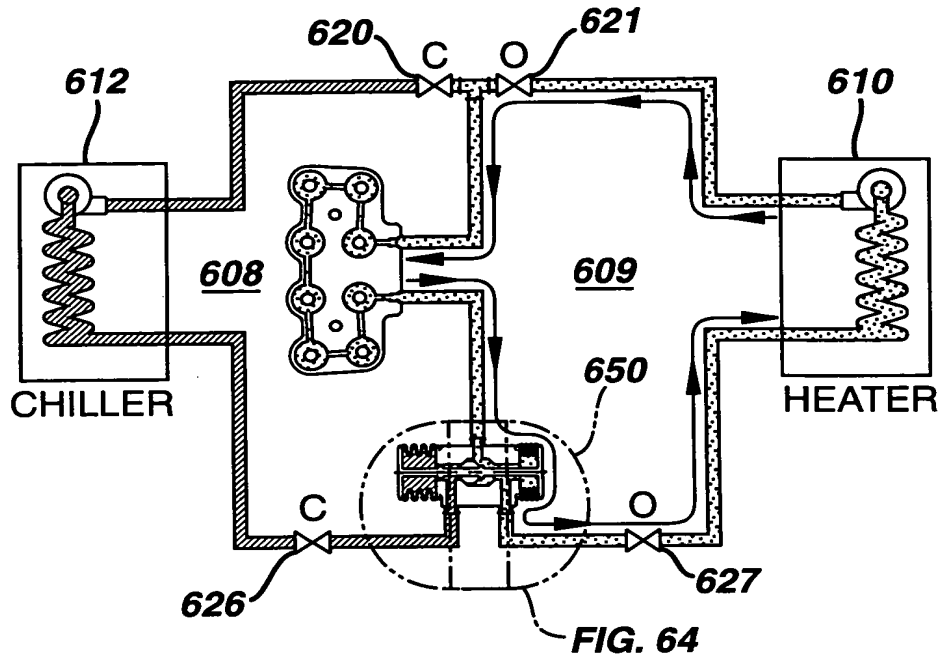
**FIG. 61**

O= VALVE OPEN  
 C= VALVE CLOSED

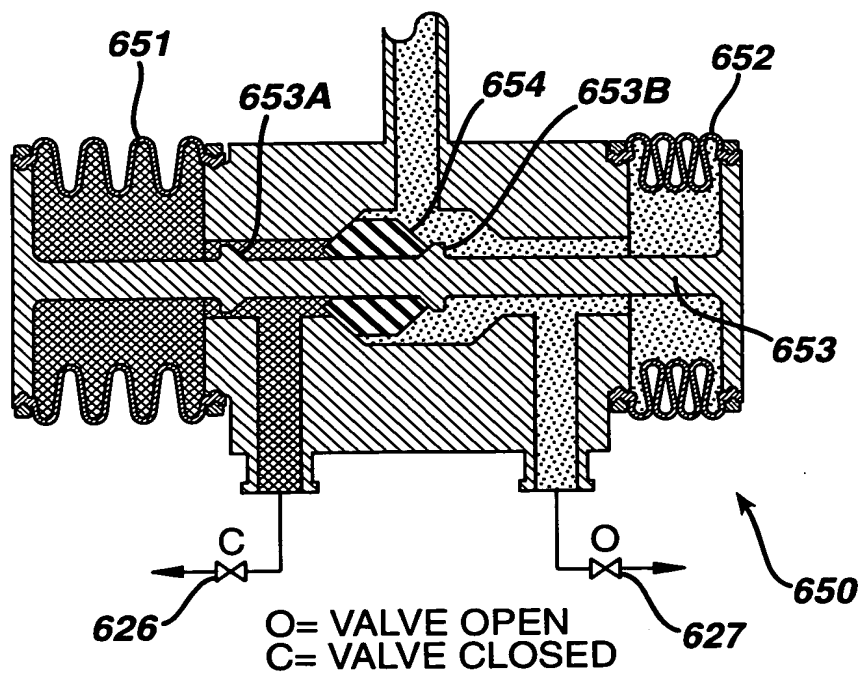
**FIG. 62**

O= VALVE OPEN  
 C= VALVE CLOSED

59/80

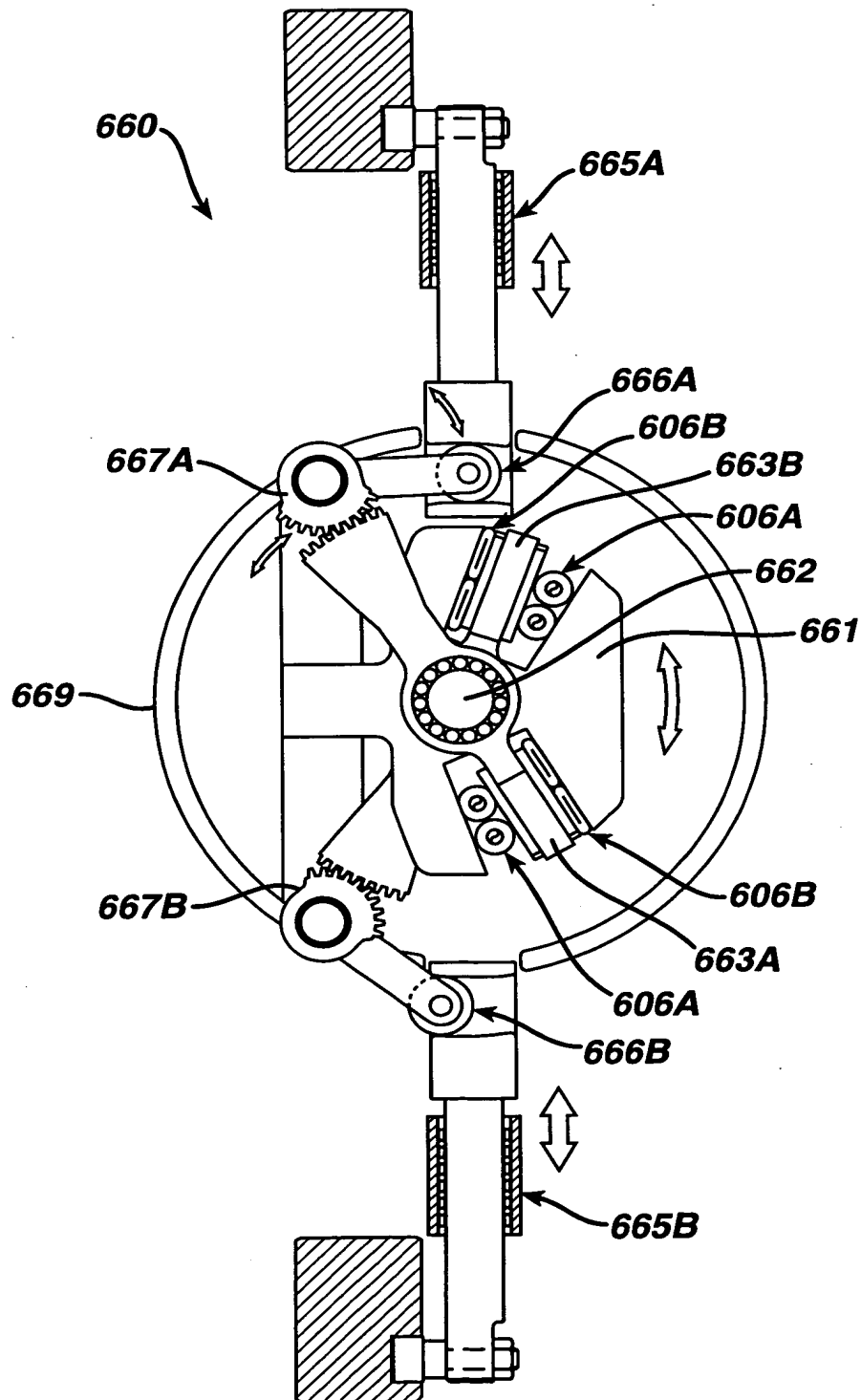
**FIG. 63**

O= VALVE OPEN  
 C= VALVE CLOSED

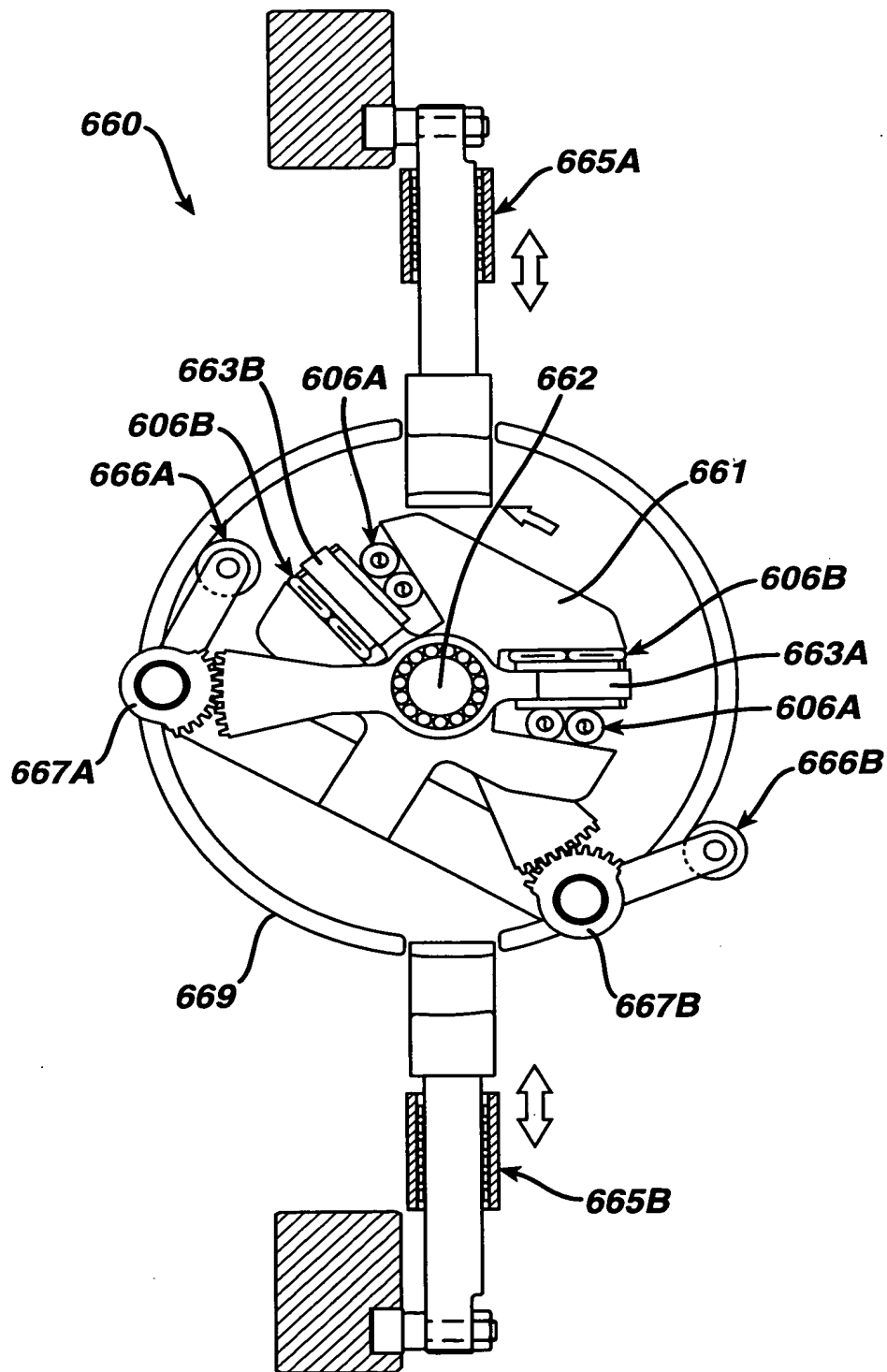
**FIG. 64**

TITLE: Systems, Methods and Apparatuses for...  
INVENTOR(S): Sowden, et al.  
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60/80

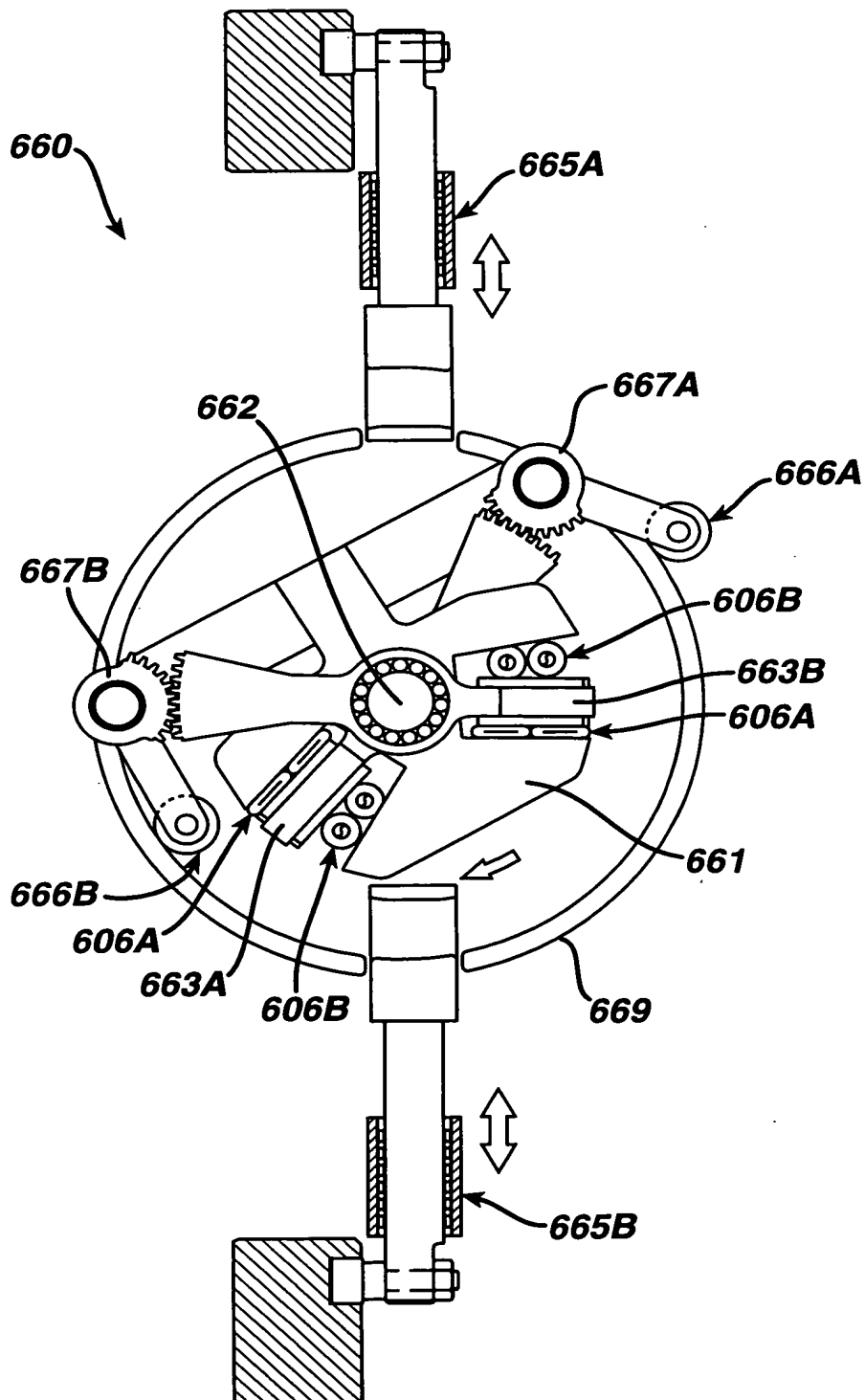
**FIG. 65**

61/80

**FIG. 66**

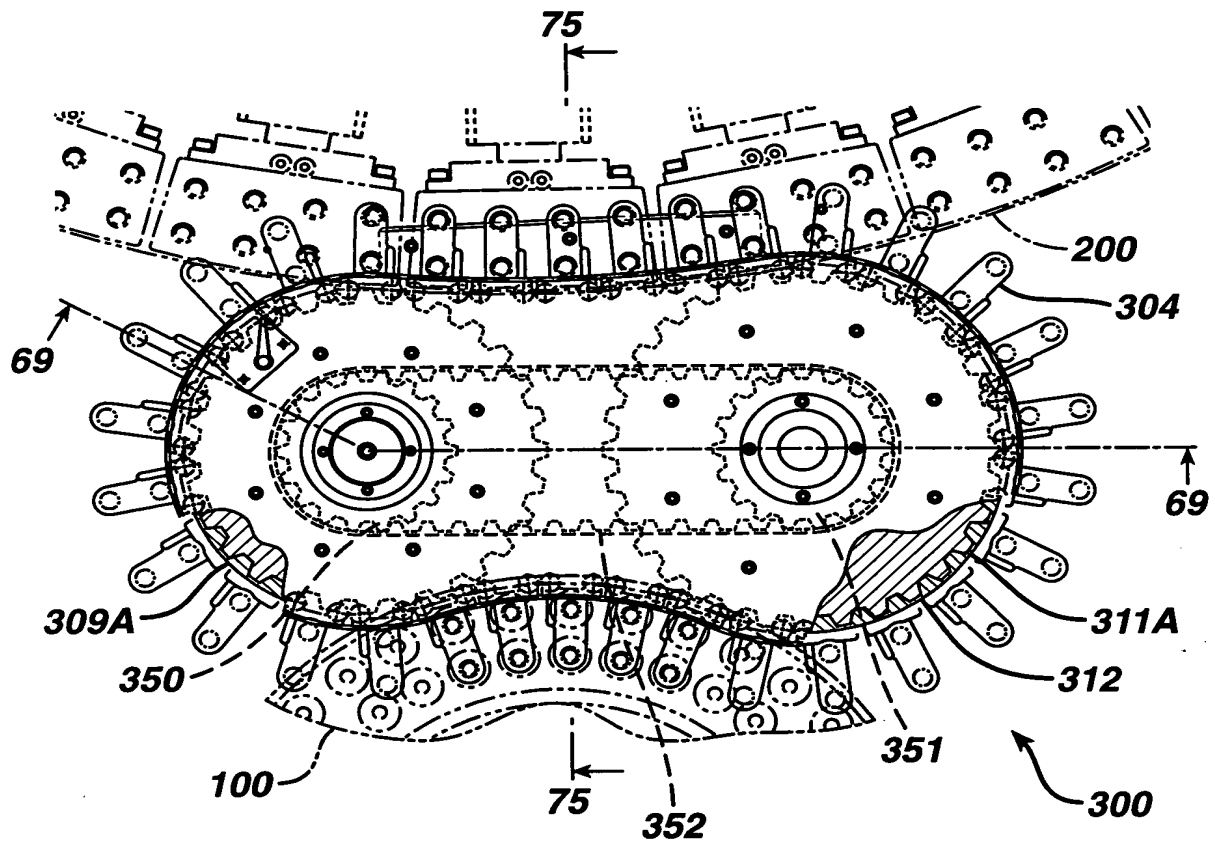
TITLE: Systems, Methods and Apparatuses for...  
INVENTOR(S): Sowden, et al.  
APP#: 09/966939  
ATTY: S. E. Hayner TEL. #: 732-524-2242  
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62/80



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INVENTOR(S): Sowden, et al.  
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63/80

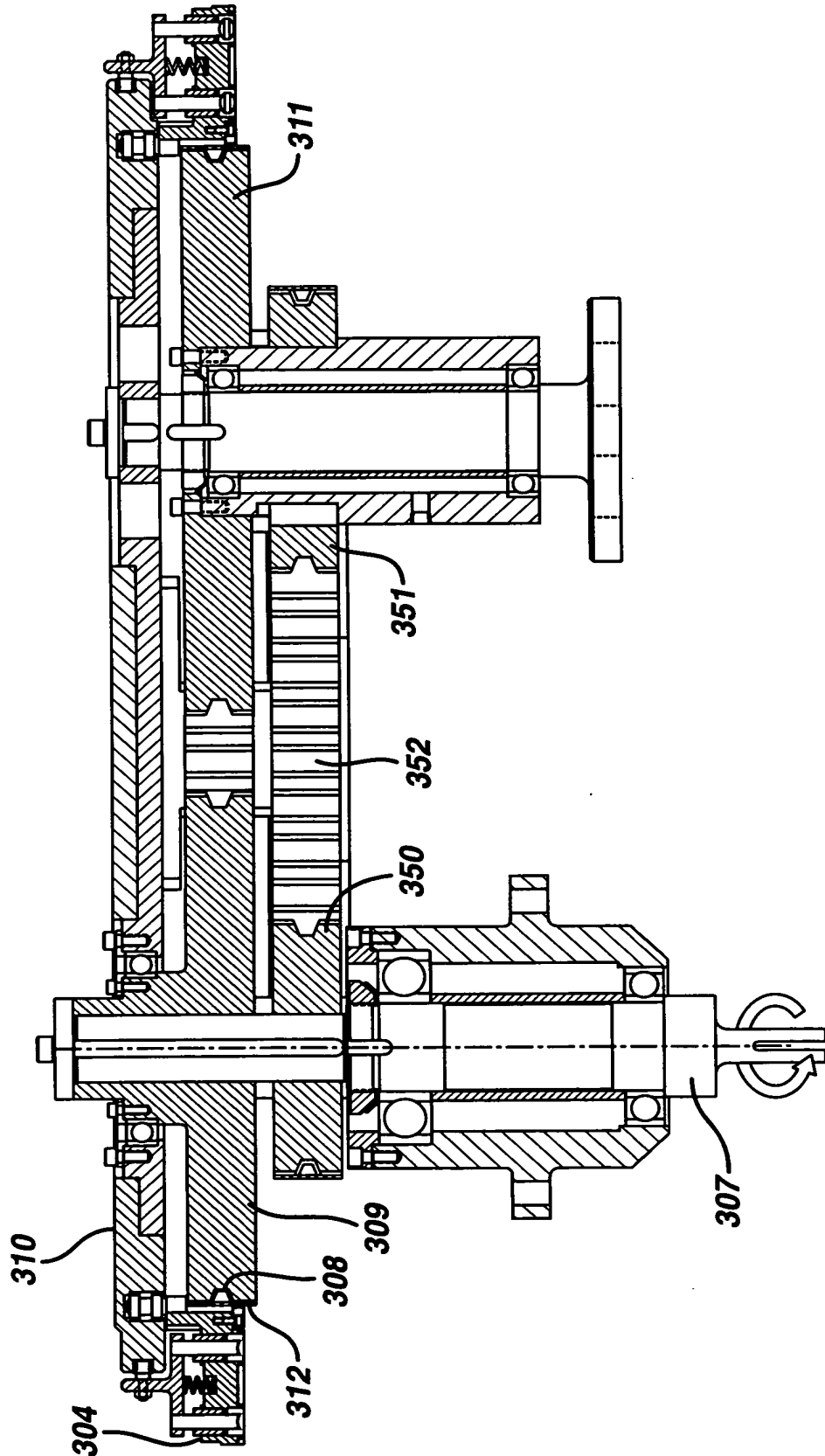
**FIG. 68**



TITLE: Systems, Methods and Apparatuses for...  
INVENTOR(S): Sowden, et al.  
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ATTY: S. E. Hayner TEL. #: 732-524-2242  
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64/80

FIG. 69

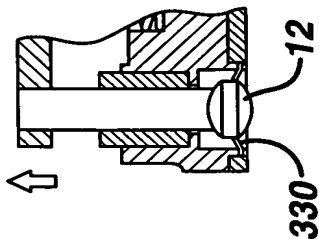


TITLE: Systems, Methods and Apparatuses for...  
 INVENTOR(S): Sowden, et al.  
 APP#: 09/966939  
 ATTY: S. E. Hayner TEL. #: 732-524-2242  
 DOCKET #: MCP-0242 CUST. #: 00002777

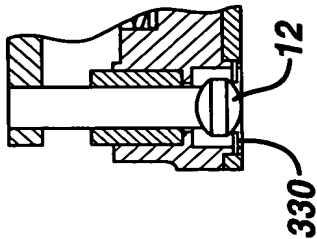
65/80



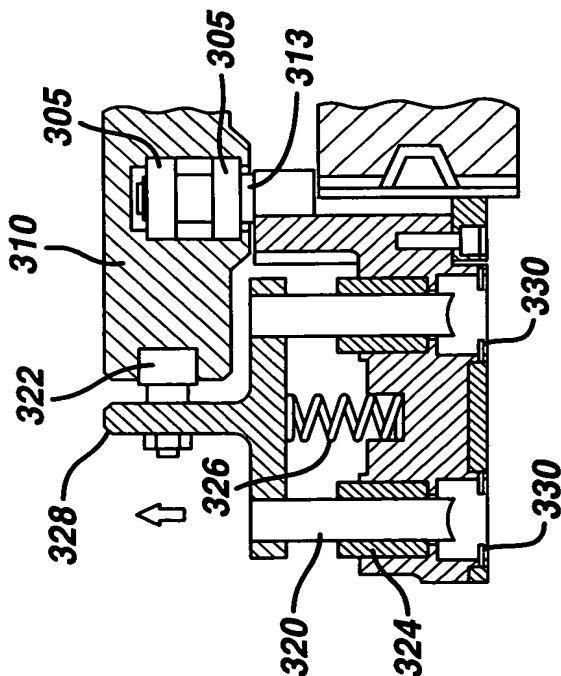
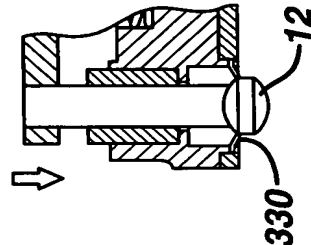
**FIG. 72**



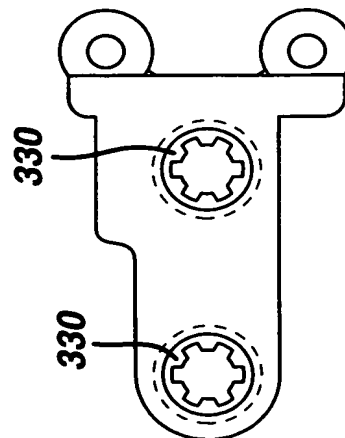
**FIG. 73**



**FIG. 74**



**FIG. 70**

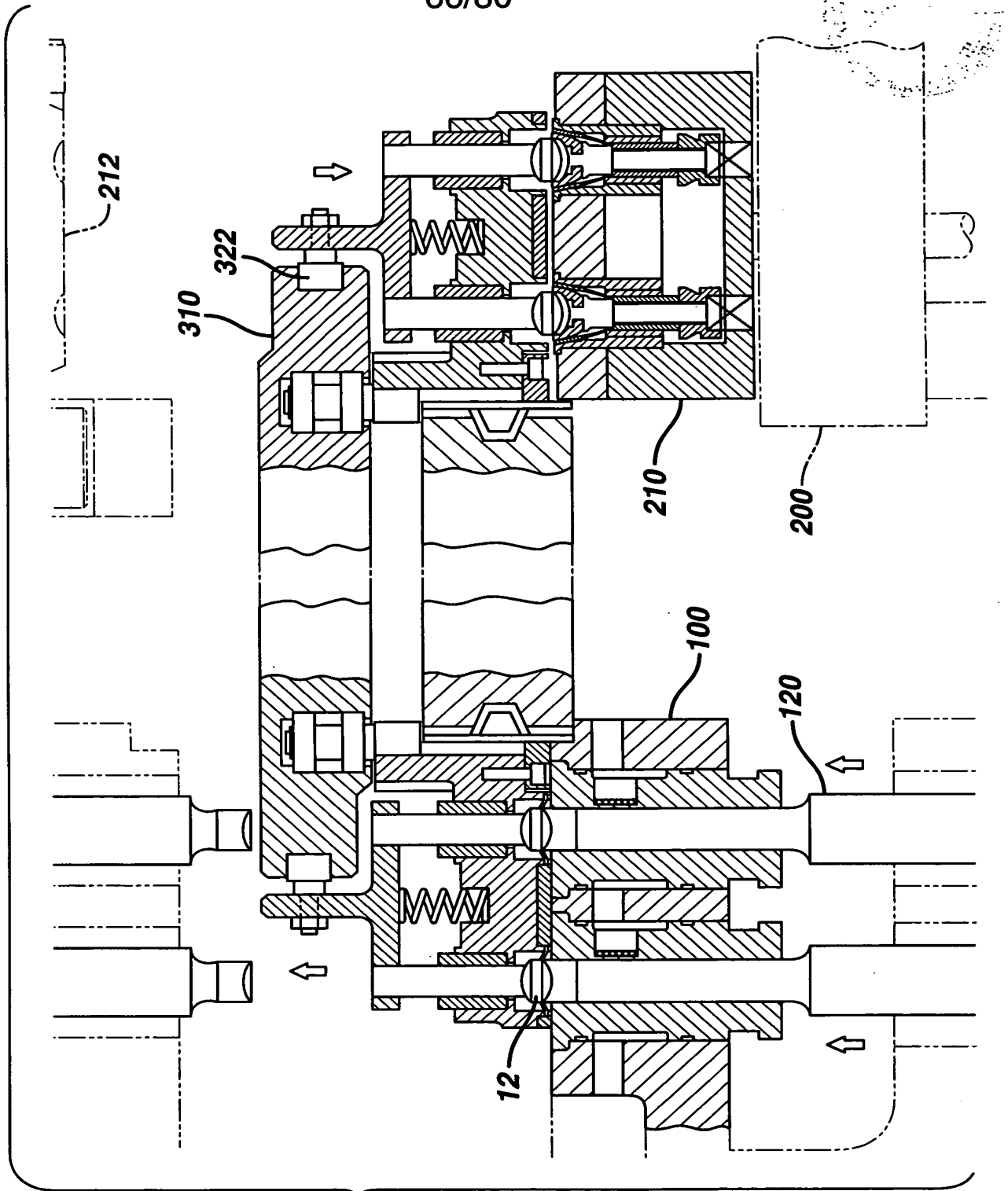


**FIG. 71**

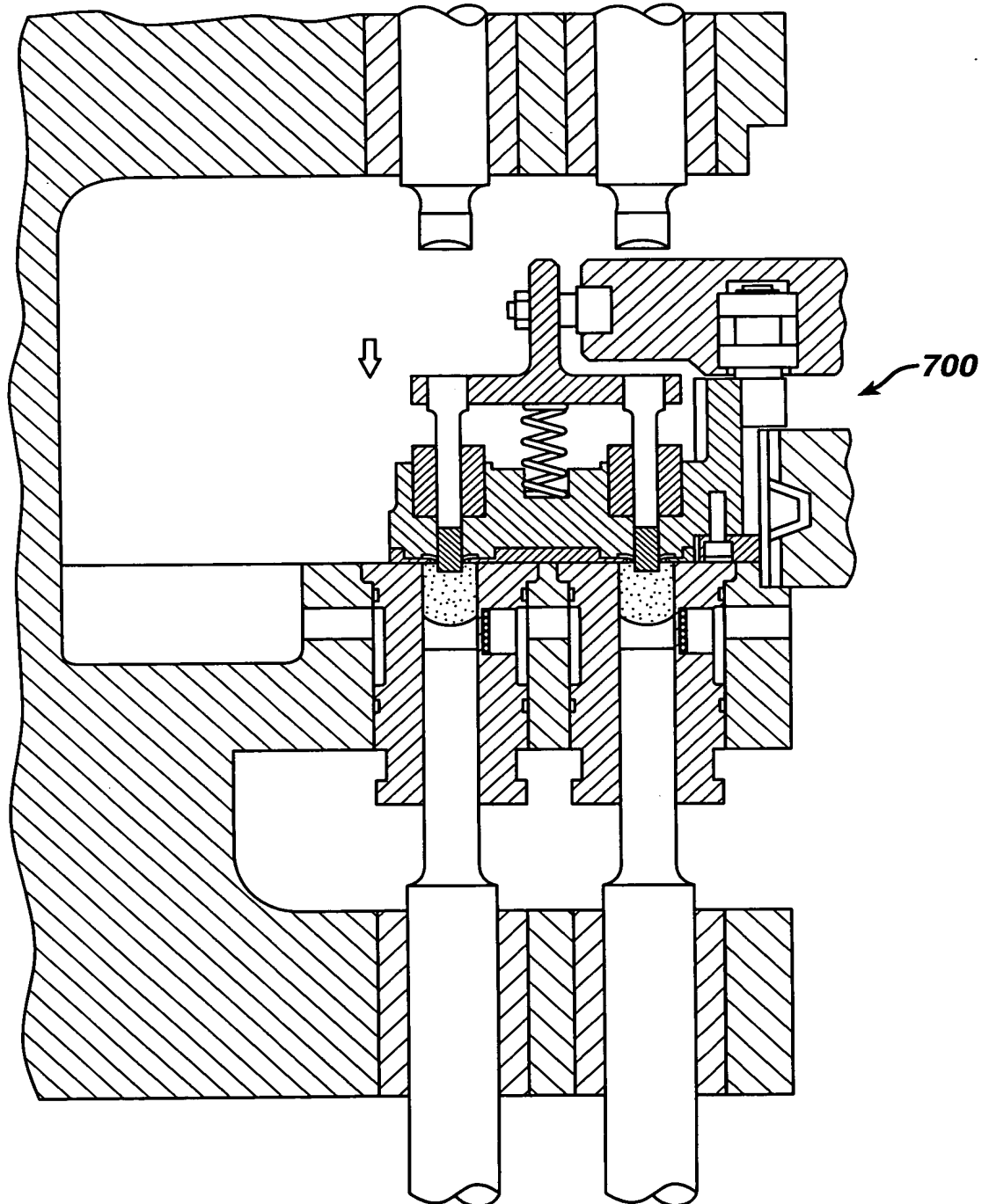
TITLE: Systems, Methods and Apparatuses for...  
INVENTOR(S): Sowden, et al.  
APP#: 09/966939  
ATTY: S. E. Hayner  
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CUST. #: 000027777

66/80

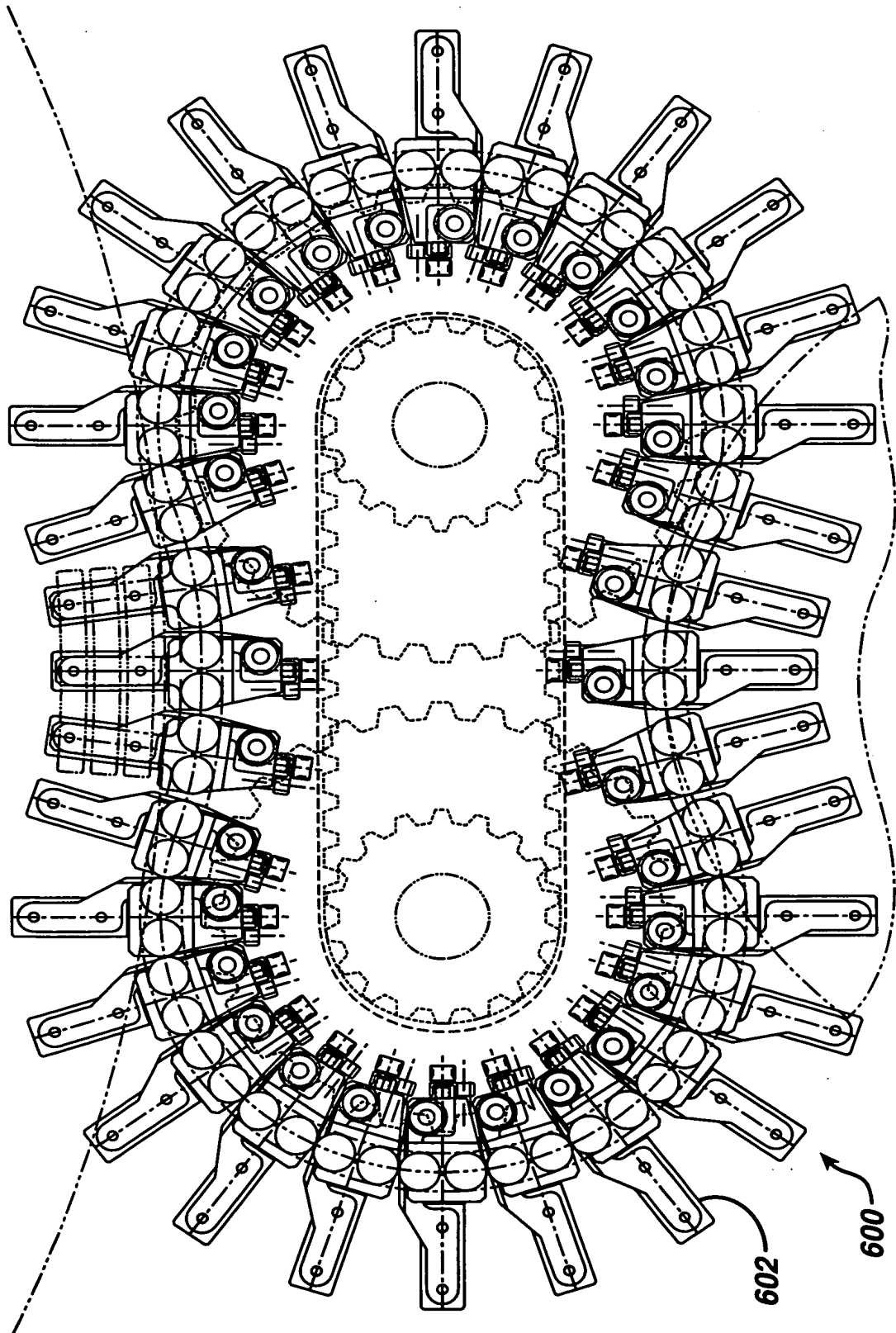
**FIG. 75**

67/80

**FIG. 76**

TITLE: Systems, Methods and Apparatuses for...  
INVENTOR(S): Sowden, et al.  
APP#: 09/966939  
ATTY: S. E. Hayner TEL. #: 732-524-2242  
DOCKET #: MCP-0242 CUST. #: 00002777

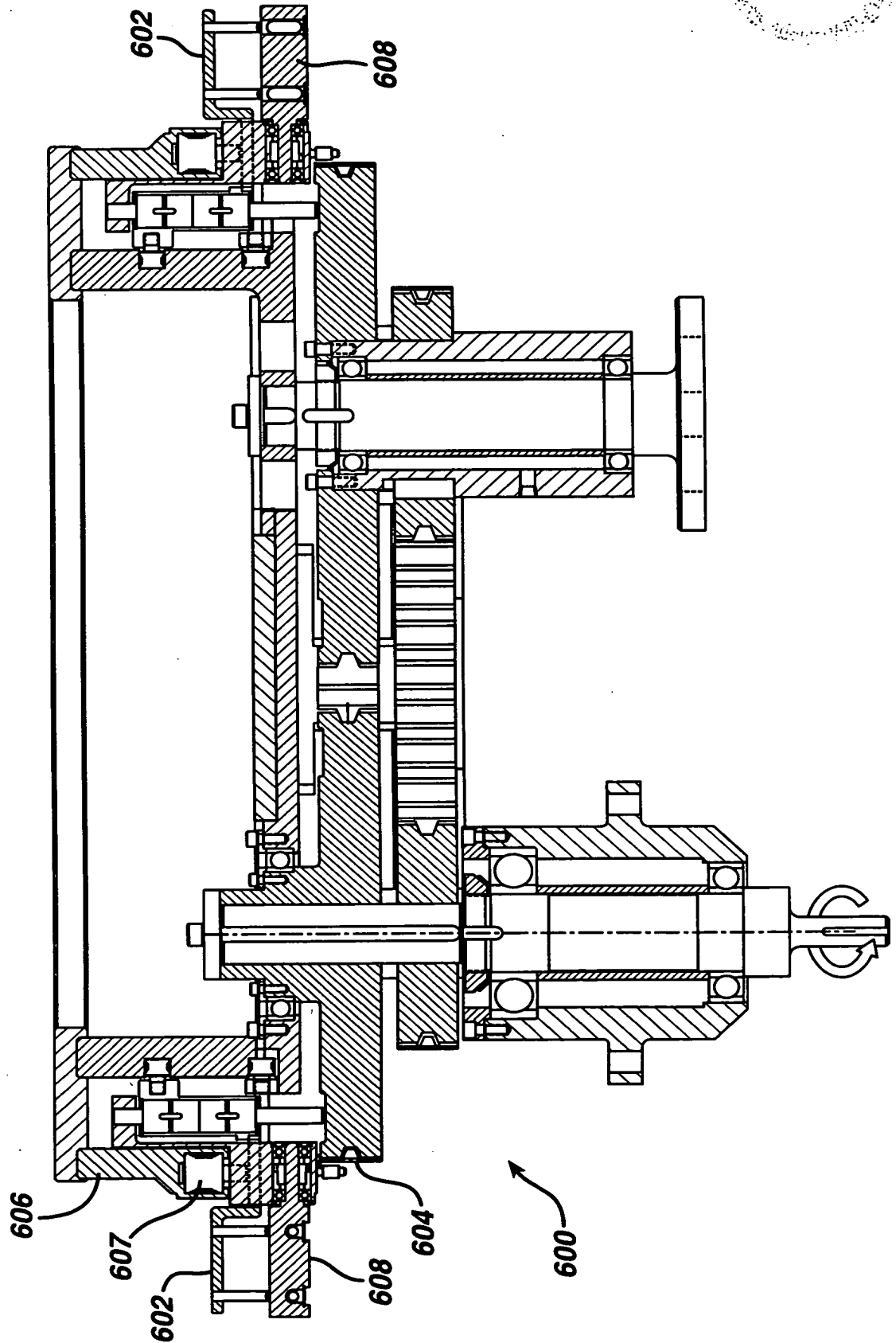
68/80

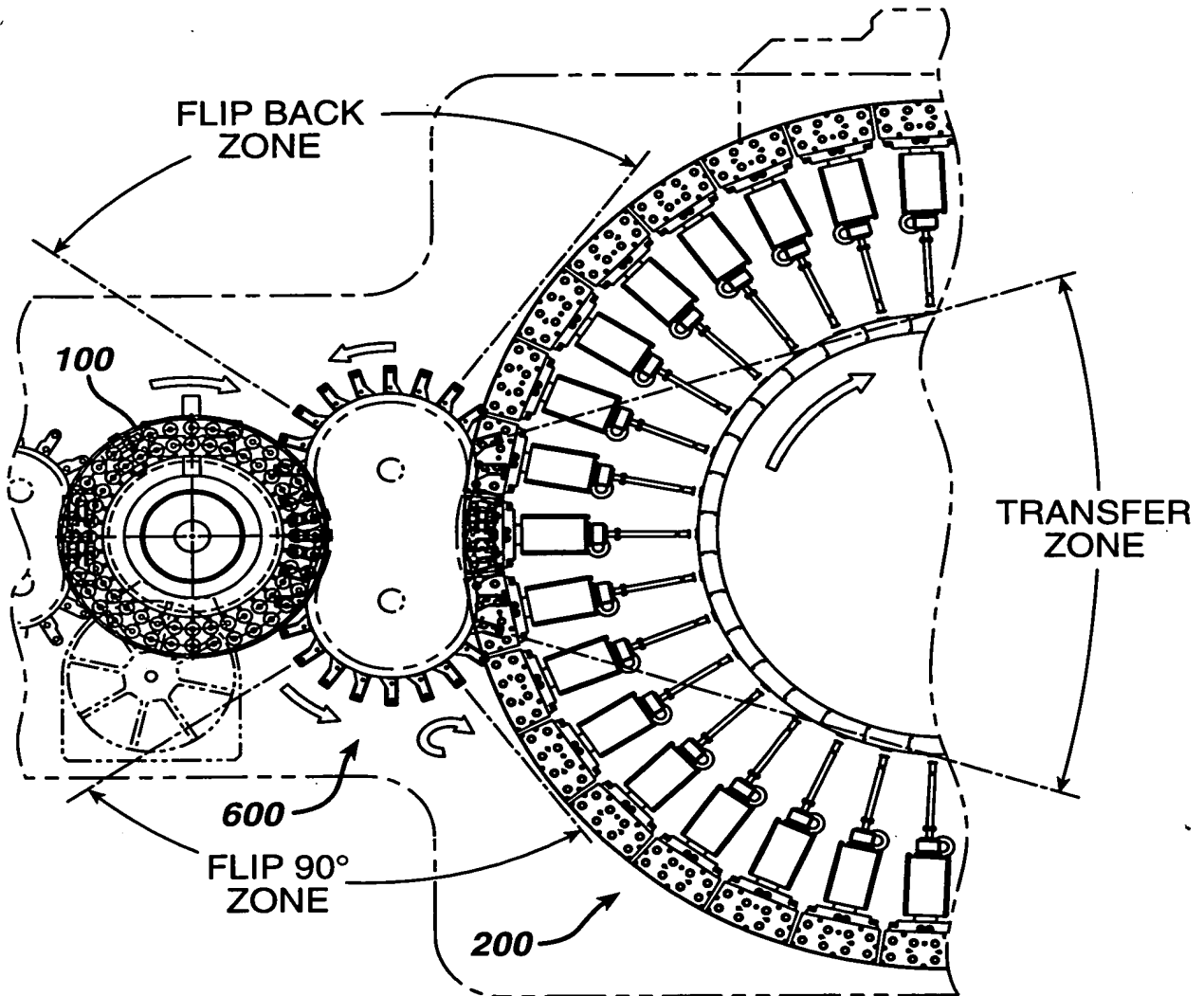
**FIG. 77**

TITLE: Systems, Methods and Apparatuses for...  
 INVENTOR(S): Sowden, et al.  
 APP#: 09/966939  
 ATTY: S. E. Hayner TEL. #: 732-524-2242  
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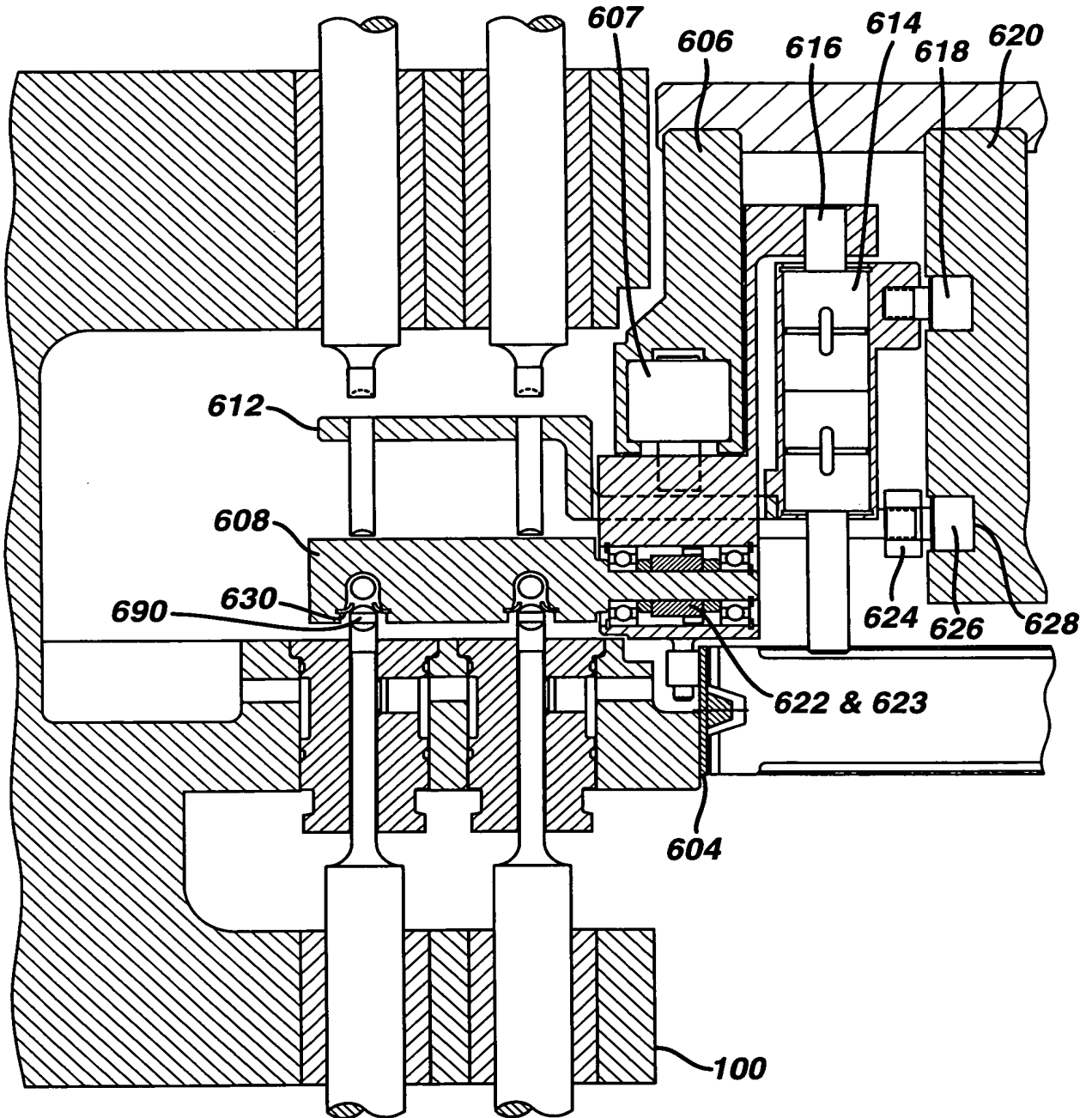
69/80

FIG. 78



**FIG. 79**

71/80

**FIG. 80**



TITLE: Systems, Methods and Apparatuses for...  
 INVENTOR(S): Sowden, et al.  
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72/80

FIG. 81D

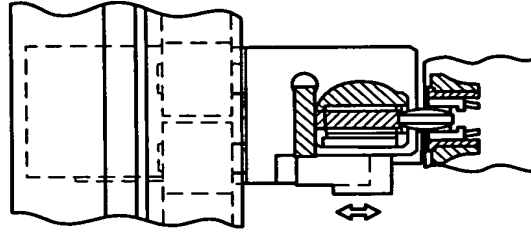


FIG. 81C

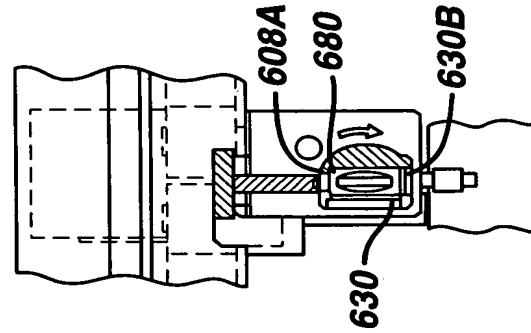


FIG. 81B

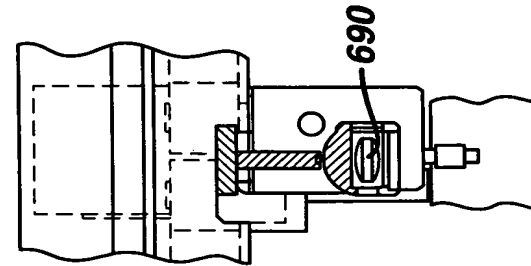
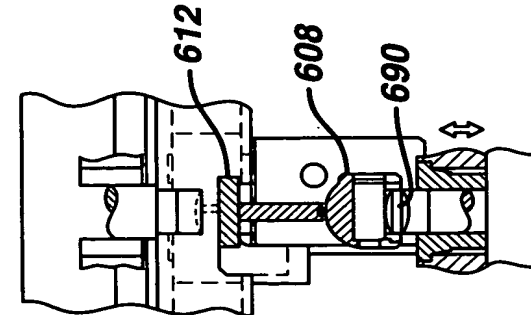
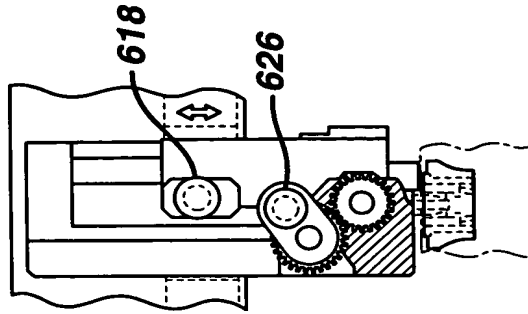
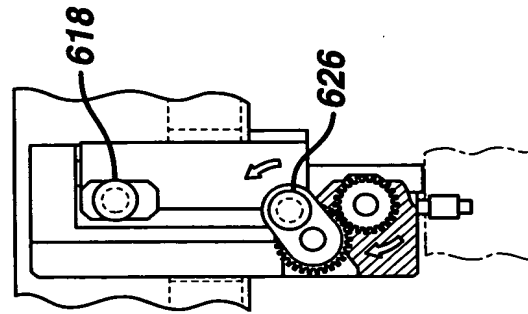
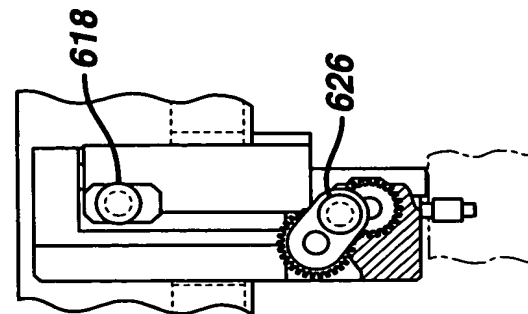


FIG. 81A

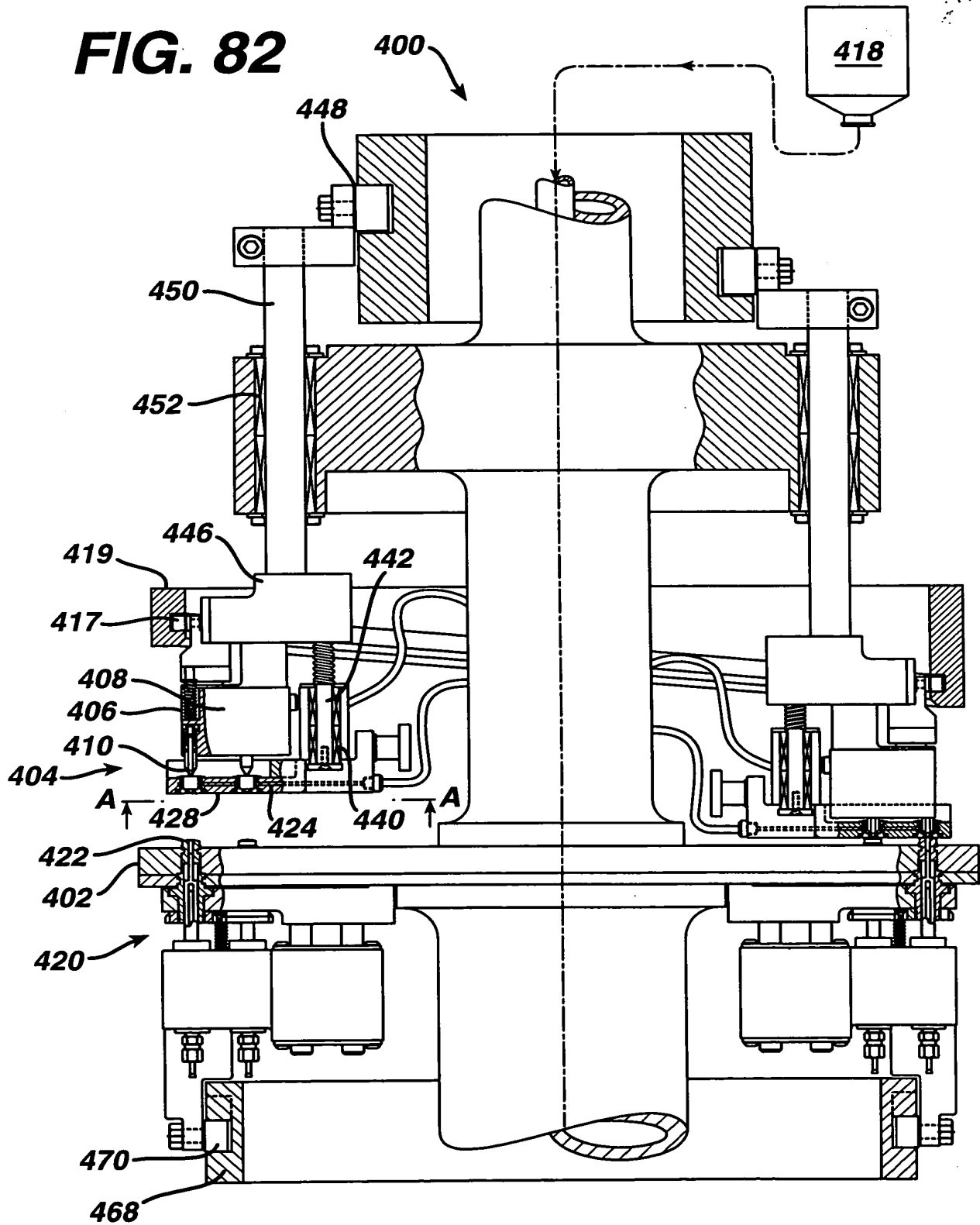


TITLE: Systems, Methods and Apparatuses for...  
INVENTOR(S): Sowden, et al.  
APP#: 09/966939  
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73/80

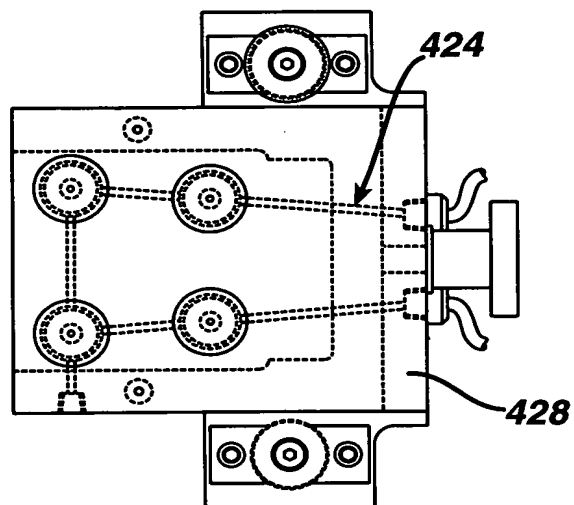
**FIG. 81G****FIG. 81F****FIG. 81E**

74/80

**FIG. 82**

TITLE: Systems, Methods and Apparatuses for...  
INVENTOR(S): Sowden, et al.  
APP#: 09/966939  
ATTY: S. E. Hayner TEL. #: 732-524-2242  
DOCKET #: MCP-0242 CUST. #: 000027777

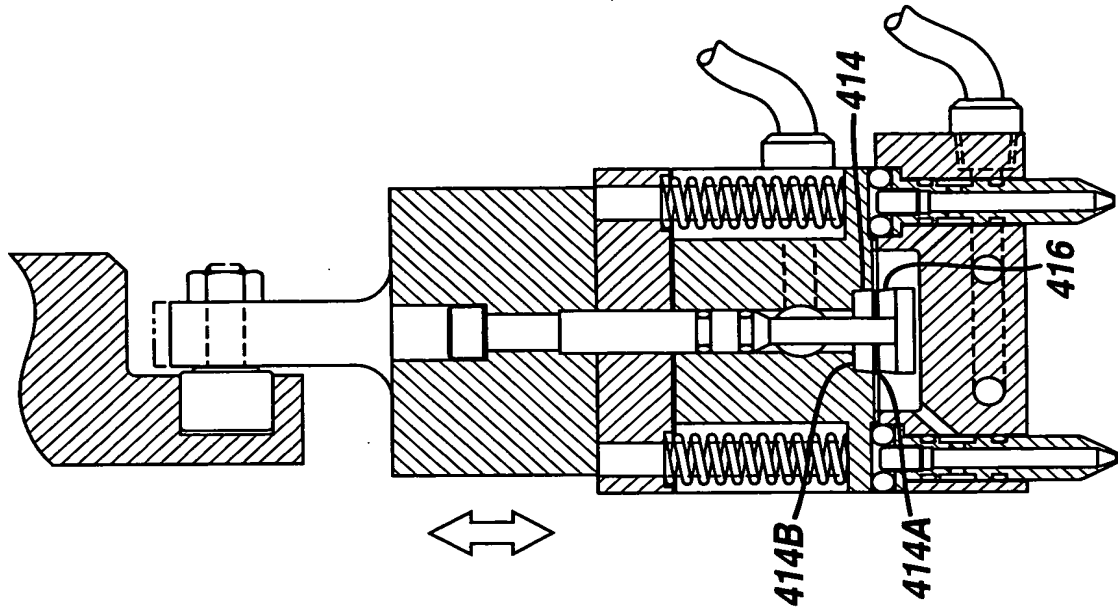
75/80

**FIG. 82A**

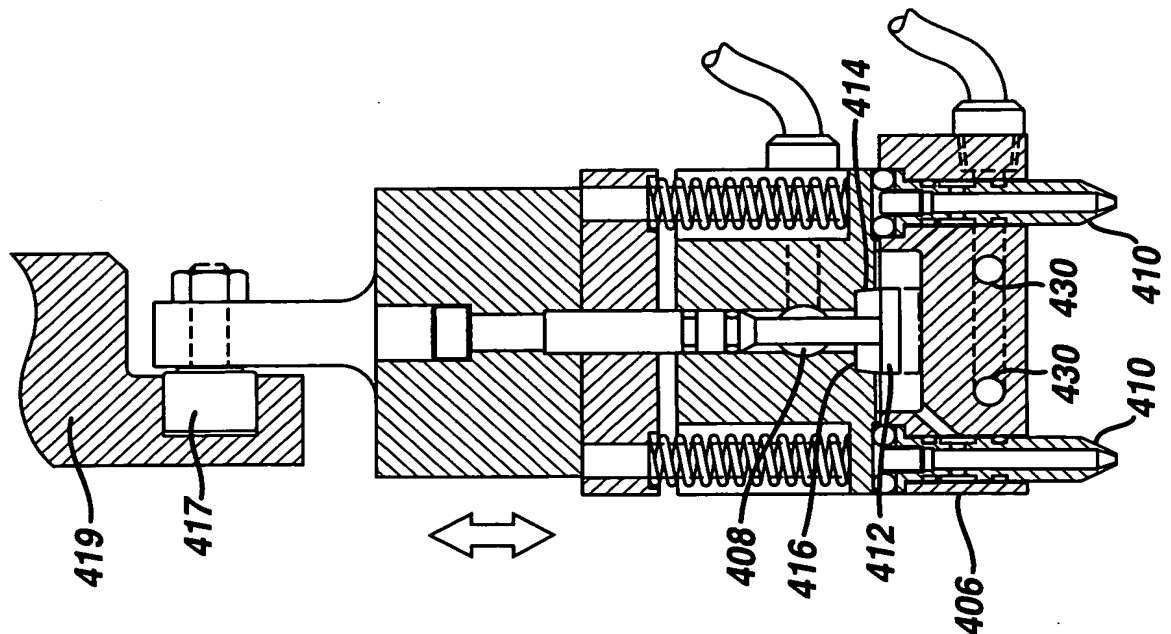
TITLE: Systems, Methods and Apparatuses for...  
INVENTOR(S): Sowden, et al.  
APP#: 09/966939  
ATTY: S. E. Hayner TEL. #: 732-524-2242  
DOCKET #: MCP-0242 CUST. #: 000027777

76/80

**FIG. 84**

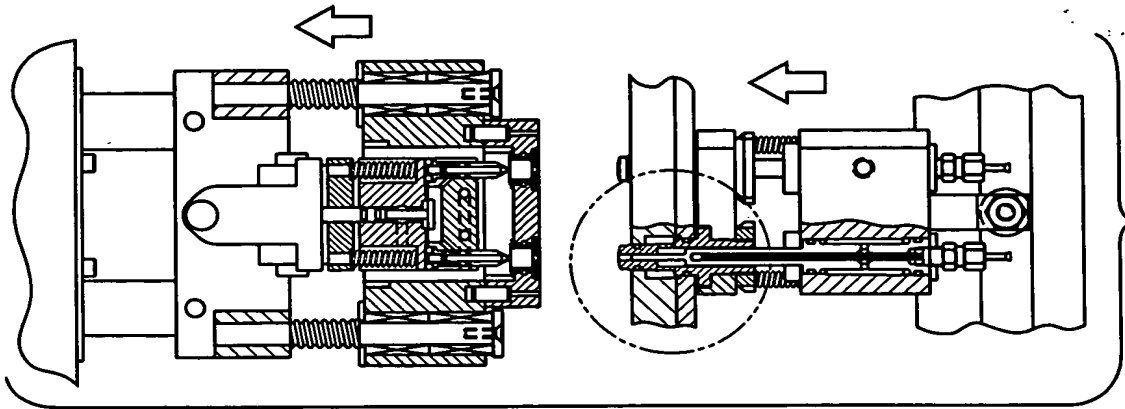


**FIG. 83**

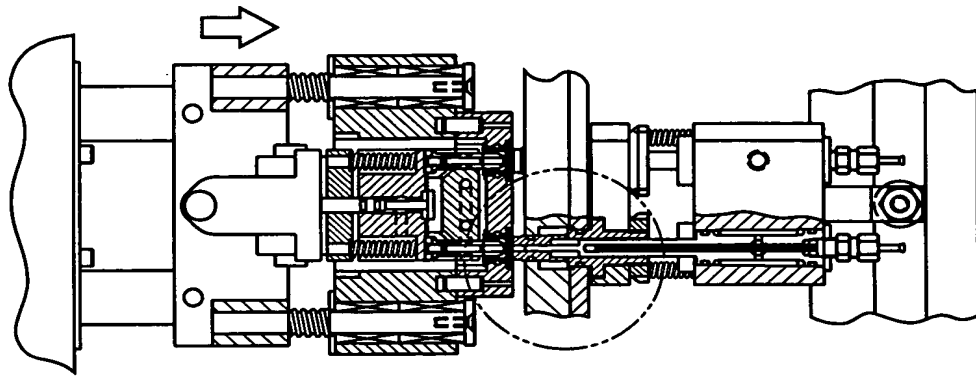


TITLE: Systems, Methods and Apparatuses for...  
 INVENTOR(S): Sowden, et al.  
 APP#: 09/966939  
 ATTY: S. E. Hayner TEL. #: 732-524-2242  
 DOCKET #: MCP-0242 CUST. #: 000027777

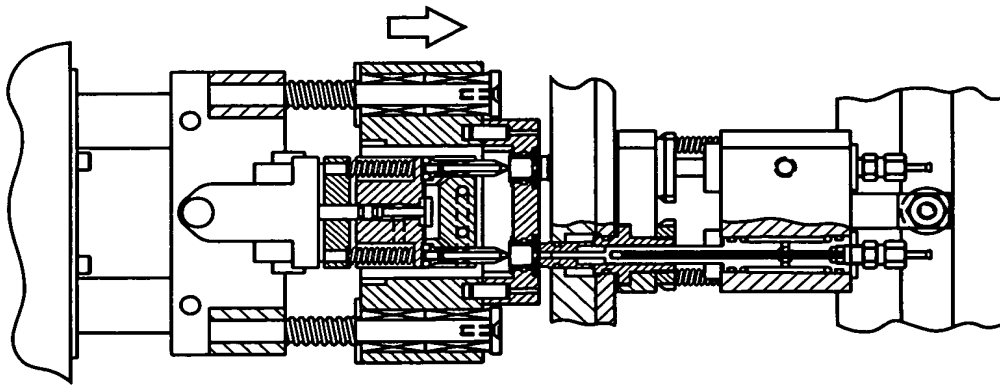
77/80



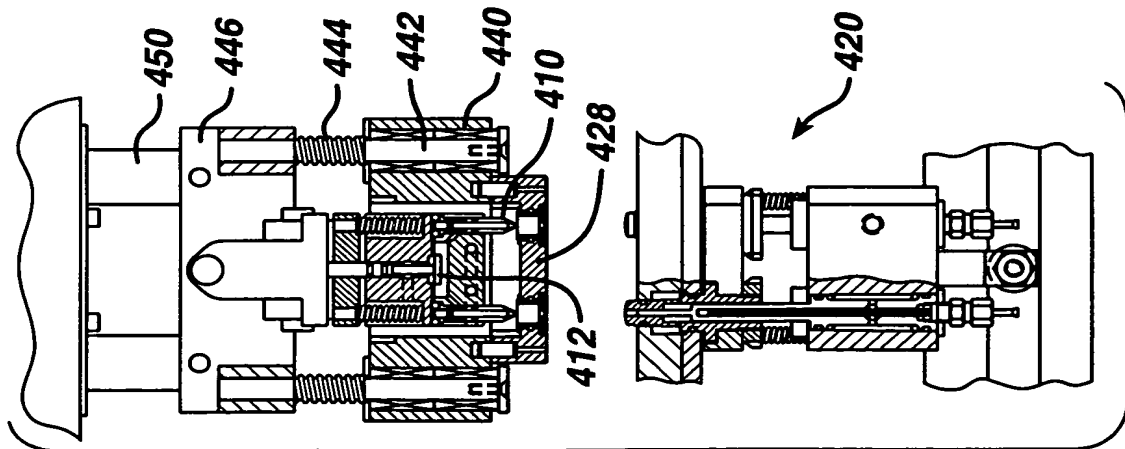
**FIG. 85D**



**FIG. 85C**

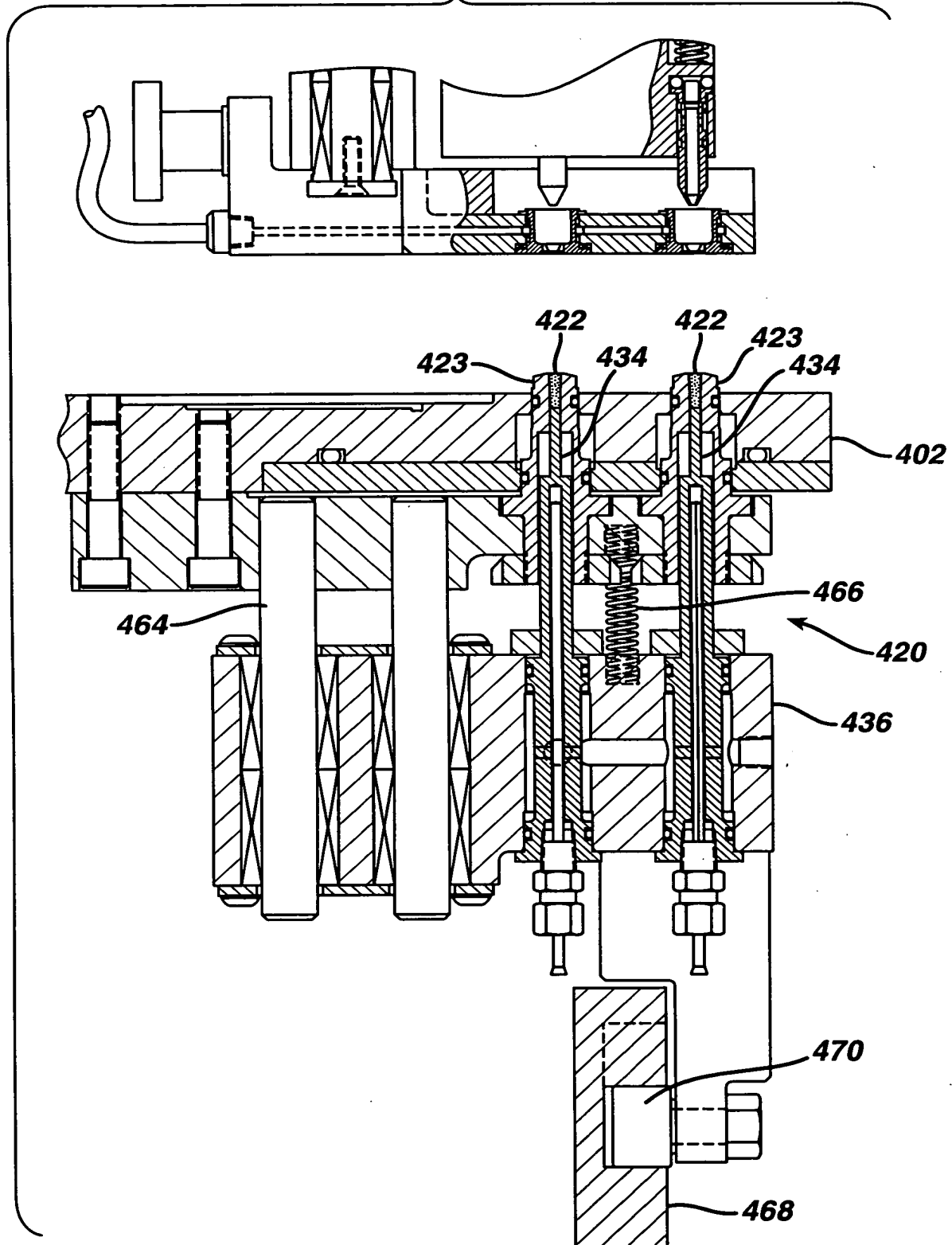


**FIG. 85B**



**FIG. 85A**

78/80

**FIG. 86**

TITLE: Systems, Methods and Apparatuses for...  
INVENTOR(S): Sowden, et al.  
APP#: 09/966939  
ATTY: S. E. Hayner TEL. #: 732-524-2242  
DOCKET #: MCP-0242 CUST. #: 00002777

79/80

FIG. 88

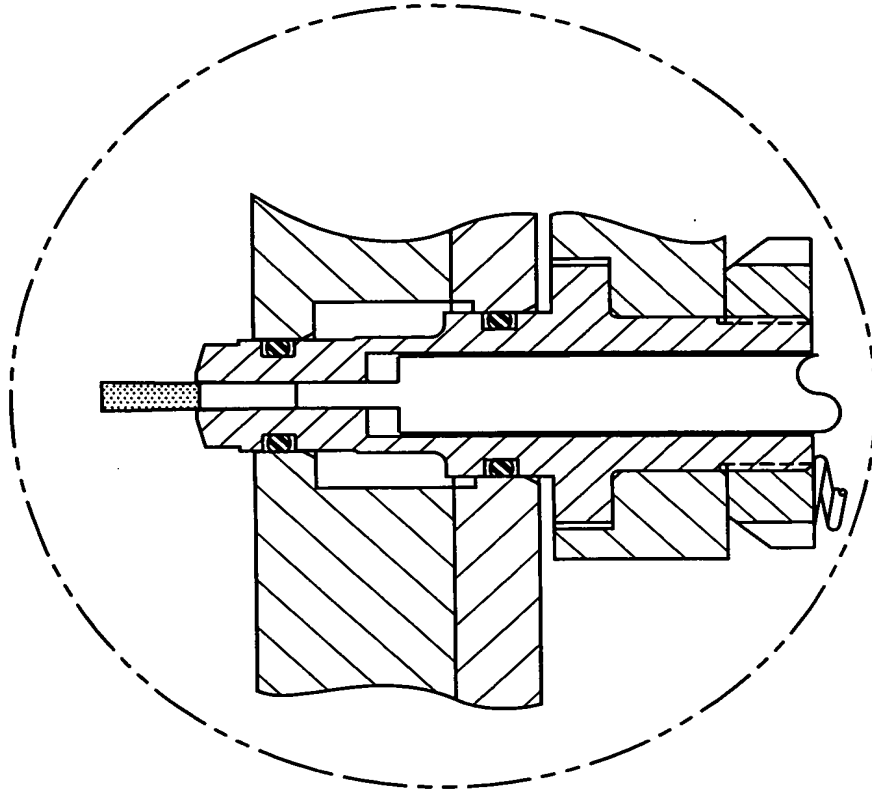
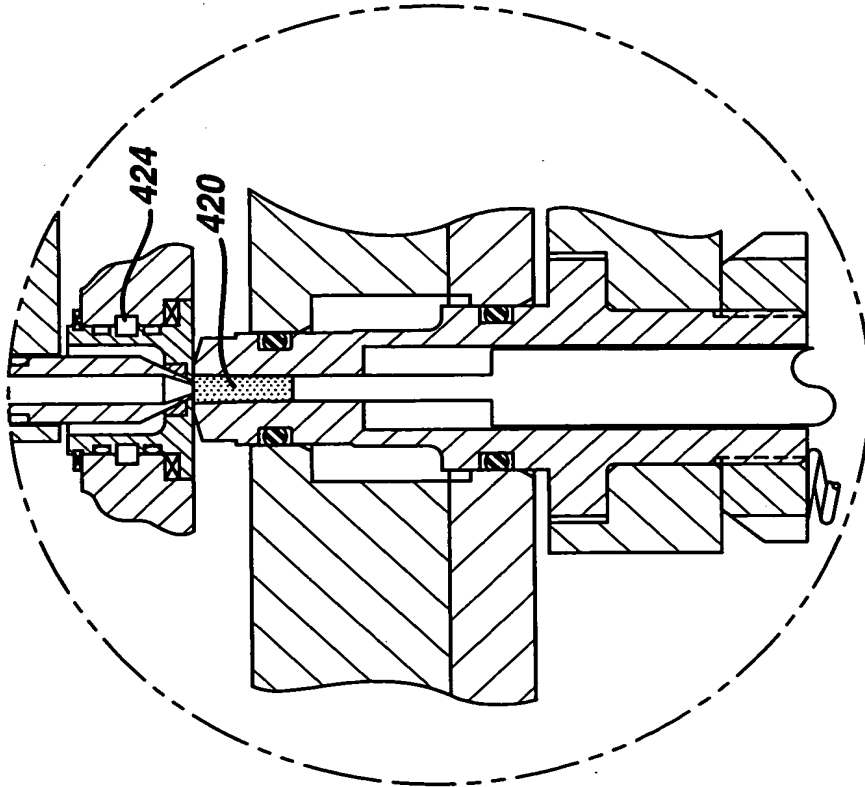


FIG. 87





80/80

**FIG. 89**